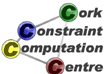


# Chapter 10: Customizing Search (Progressive Party Problem)

Helmut Simonis

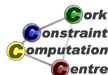
Cork Constraint Computation Centre  
Computer Science Department  
University College Cork  
Ireland

ECLIPSe ELearning [Overview](#)



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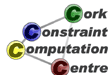
# Outline

- 1 Problem
- 2 Program
- 3 Search



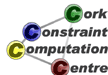
# What we want to introduce

- Problem Decomposition
  - Decide which problem to solve
  - Not always required to solve complete problem in one go
- Modelling with bin packing
- Customized search routines can bring dramatic improvements
- Understanding what is happening important to find improvements



# Outline

- 1 Problem
  - Phase 1
  - Phase 2
- 2 Program
- 3 Search



# Problem Definition

## Progressive Party

The problem is to timetable a party at a yacht club. Certain boats are to be designated hosts, and the crews of the remaining boats in turn visit the host boats for several successive half-hour periods. The crew of a host boat remains on board to act as hosts while the crew of a guest boat together visits several hosts. Every boat can only host a limited number of guests at a time (its capacity) and crew sizes are different. The party lasts for 6 time periods. A guest boat cannot revisit a host and guest crews cannot meet more than once. The problem facing the rally organizer is that of minimizing the number of host boats.

# Data

Boat	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Capacity	6	8	12	12	12	12	12	10	10	10	10	10	8	8
Crew	2	2	2	2	4	4	4	1	2	2	2	3	4	2
Boat	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Capacity	8	12	8	8	8	8	8	8	7	7	7	7	7	7
Crew	3	6	2	2	4	2	4	5	4	4	2	2	4	5
Boat	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Capacity	6	6	6	6	6	6	6	6	6	6	9	0	0	0
Crew	2	4	2	2	2	2	2	2	2	4	5	7	2	3

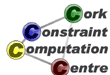
# Problem Decomposition

- Phase 1: Select minimal set of host boats
  - Manually
- Phase 2: Create plan to assign guest boats to hosts in multiple periods
  - Done as a constraint program



# Idea

- Decompose problem into multiple, simpler sub problems
- Solve each sub problem in turn
- Provides solution of complete problem
- Challenge: How to decompose so that good solutions are obtained?
- How to show optimality of solution?



# Selecting Host boats

- Some additional side constraints
  - Some boats must be hosts
  - Some boats may not be hosts
- Reason on total or spare capacity
- No solution with 12 boats





# Solution to Phase 1

- Select boats 1 to 12 and 14 as hosts
- Many possible problem variants by selecting other host boats

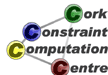
## Phase 2 Sub-problem

- Host boats and their capacity given
- Ignore host teams, only consider free capacity
- Assign guest teams to host boats



# Model

- Assign guest boats to hosts for each time period
- Matrix of domain variables (size  $NrGuests \times NrPeriods$ )
- Variables range over possible hosts  $1..NrHosts$



# Constraints

- Each guest boat visits a host boat at most once
- Two guest boats meet at most once
- All guest boats assigned to a host in a time period fit within spare capacity of host boat



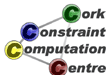
# Each guest visits a hosts atmost once

- The variables for a guest and different time periods must be pairwise different
- `alldifferent` constraint on rows of matrix



## Two guests meet at most once

- The variables for two guests can have the same value for atmost one time period
- Constraints on each pair of rows in matrix



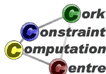
# All guests assigned to a host in a time period fit within spare capacity of host boat

- Capacity constraint expressed as bin packing for each time period
- Each host boat is a bin with capacity from 0 to its unused capacity
- Each guest is an item to be assigned to a bin
- Size of item given by crew size of guest boat



# Bin Packing Constraint

- Global constraint  
`bin_packing(Assignment, Sizes, Capacity)`
- Items of different sizes are assigned to bins
- Assignment of item modelled with domain variable (first argument)
- Size of items fixed: integer values (second argument)
- Each bin may have a different capacity
- Capacity of each bin given as a domain variable (third argument)





# Outline

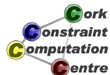
- 1 Problem
- 2 Program
- 3 Search



# Main Program

```
top:-  
    top(10,6).
```

```
top(Problem,Size):-  
    problem(Problem,Hosts,Guests),  
    model(Hosts,Guests,Size,Matrix),  
    writeln(Matrix).
```



# Data

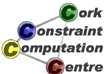
```
problem(10,  
        [10,10,9,8,8,8,8,8,8,7,6,6,4],  
        [7,6,5,5,5,4,4,4,4,4,4,4,4,3,  
         3,2,2,2,2,2,2,2,2,2,2,2,2,2]).
```

# Creating Variables

```

model (Hosts, Guests, NrPeriods, Matrix) :-
    length (Hosts, NrHosts),
    length (Guests, NrGuests),
    dim (Matrix, [NrGuests, NrPeriods]),
    Matrix[1..NrGuests, 1..NrPeriods] :: 1..NrHosts,
    ...

```



## Setting up alldifferent constraints

```
...  
(for(I, 1, NrGuests),  
  param(Matrix, NrPeriods) do  
    ic:alldifferent(Matrix[I, 1..NrPeriods])  
  ),  
...  
)
```



## Setting up `bin_packing` constraints

```

...
(for (J, 1, NrPeriods),
  param (Matrix, NrGuests, Guests, Hosts) do
    make_bins (Hosts, Bins),
    bin_packing (Matrix[1..NrGuests, J],
                Guests, Bins)
  ),
...

```



## Each pair of guests meet atmost once

```

...
(for (I, 1, NrGuests-1),
  param(Matrix, NrGuests, NrPeriods) do
    (for (I1, I+1, NrGuests),
      param(Matrix, NrPeriods, I) do
        card_leq(Matrix[I, 1..NrPeriods],
                  Matrix[I1, 1..NrPeriods], 1)
      )
    )
  ),
...

```



# Call search

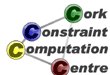
```
...  
extract_array(col, Matrix, List),  
assign(List).
```





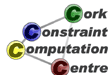
# Make Bin variables

```
make_bins(HostCapacity, Bins) :-  
    (foreach(Cap, HostCapacity),  
     foreach(B, Bins) do  
         B :: 0..Cap  
     ).
```



## Each pair of guests meet atmost once

```
card_leq(Vector1,Vector2,Card):-
    collection_to_list(Vector1,List1),
    collection_to_list(Vector2,List2),
    (foreach(X,List1),
     foreach(Y,List2),
     fromto(0,A,A+B,Term) do
         #=(X,Y,B)
    ),
    eval(Term) #=< Card.
```



# Naive Search

```
assign(List):-  
    search(List,0,input_order,indomain,  
           complete,[]).
```



# Outline

- 1 Problem
- 2 Program
- 3 Search
  - Naive Search
  - First Fail Strategy
  - Layered Search
  - Layered with Credit Search
  - Randomized with Restart

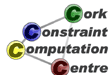


# Naive Search (Compact view)



# Observations

- Not too many wrong choices
- But very deep backtracking required to discover failure
- Most effort wasted in “dead” parts of search tree



## First Fail strategy

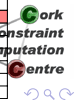
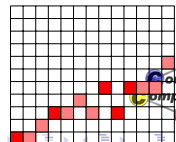
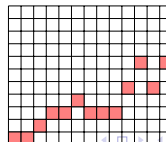
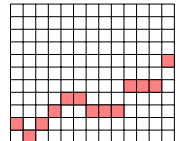
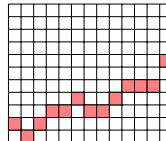
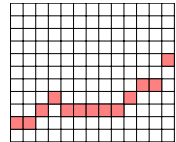
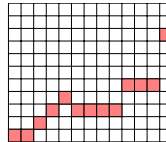
```
assign(List):-  
    search(List,0,first_fail,indomain,  
           complete,[]).
```



# First Fail Search



1	2	3	4	5	6
2	5	1	6	3	4
3	1	6	2	4	5
4	6	2	5	1	3
5	3	2	1	6	7
2	8	4	3	7	1
3	4	5	1	7	2
6	7	1	9	8	10
6	8	10	7	9	3
7	4	9	2	8	12
7	1	5	8	9	11
8	3	4	7	1	2
8	7	11	3	2	9
9	10	7	8	2	13
1	9	12	5	4	7
4	2	12	10	3	5
5	6	8	12	2	11
9	11	3	8	10	12
9	12	6	10	11	2
10	12	13	10	6	1
10	5	7	12	11	9
10	11	9	13	12	8
11	12	8	13	10	9
11	13	7	9	12	1
11	9	10	12	13	8
12	13	9	11	10	4
12	10	13	9	11	8
12	11	8	10	13	1
13	9	8	10	12	10





# Observations

- Assignment not done in row or column mode
- Tree consists of straight parts without backtracking
- and nearly fully explored parts



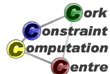
# Idea

- Assign variables by time period
- Within one time period, use `first_fail` selection
- Solves bin packing packing for each period completely
- Clearer impact of disequality constraints

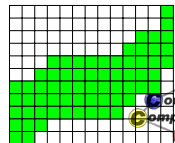
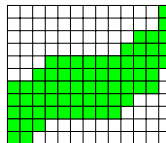
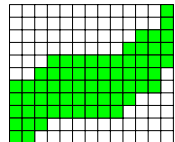
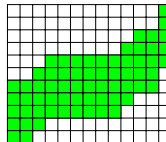
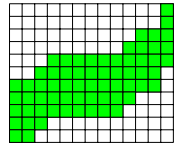
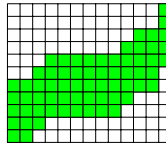
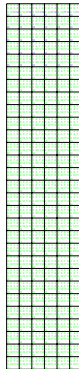


# Layered Search

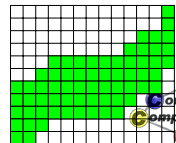
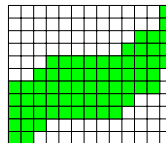
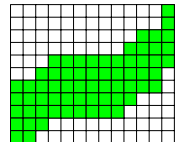
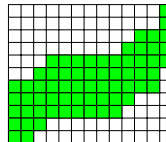
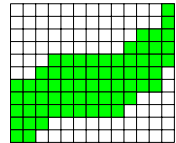
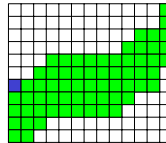
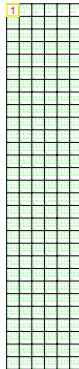
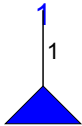
```
assign(Matrix,NrPeriods,NrGuests):-  
  (for(J,1,NrPeriods),  
   param(Matrix,NrGuests) do  
     search(Matrix[1..NrGuests,J],0,  
            first_fail,indomain,  
            complete,[])  
  ).
```



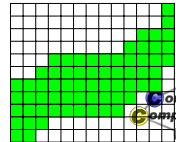
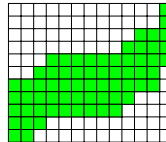
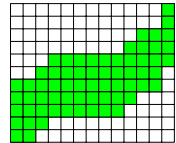
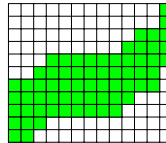
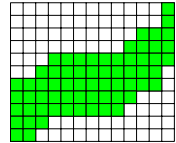
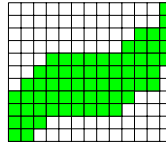
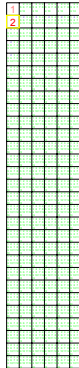
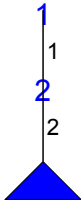
# Layered Search



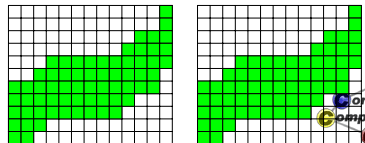
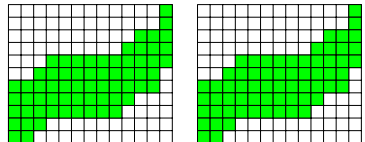
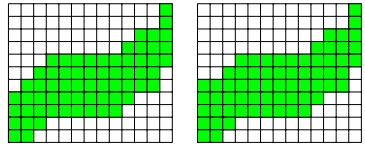
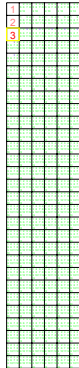
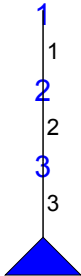
# Layered Search



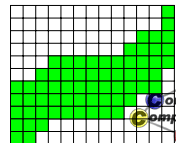
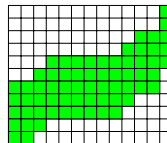
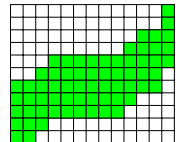
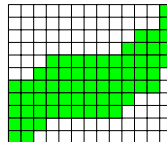
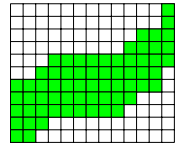
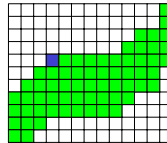
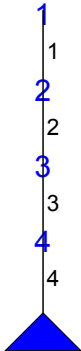
# Layered Search



# Layered Search

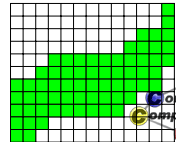
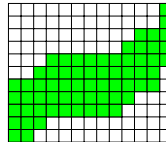
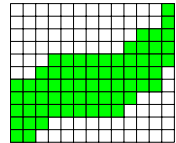
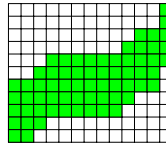
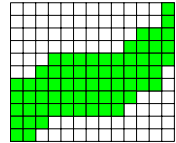
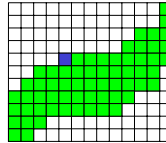
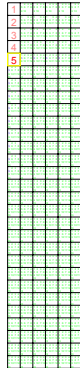
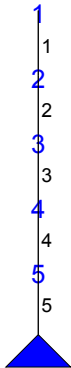


# Layered Search

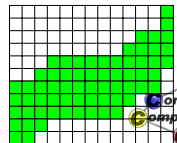
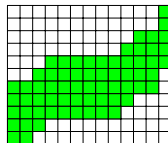
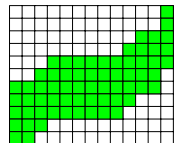
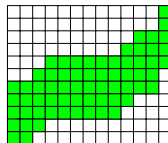
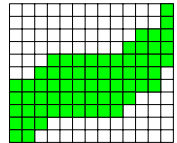
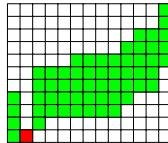
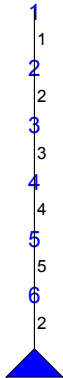




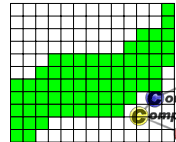
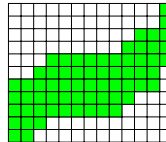
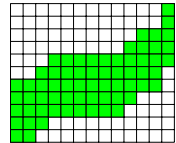
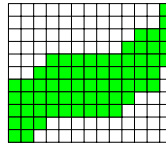
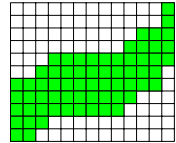
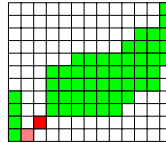
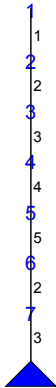
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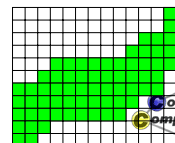
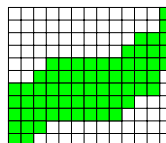
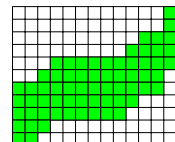
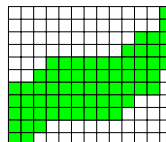
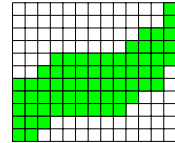
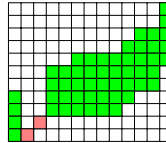
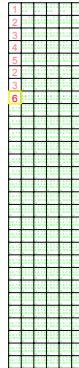
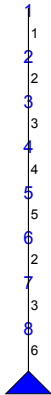
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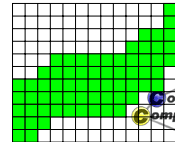
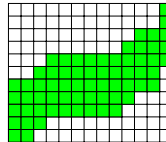
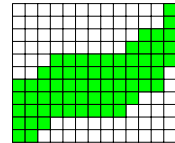
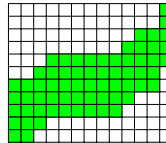
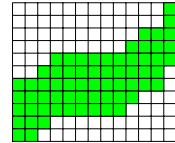
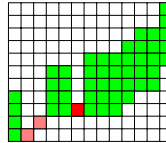
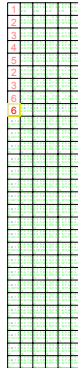
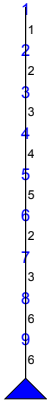
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# Layered Search

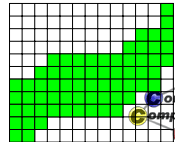
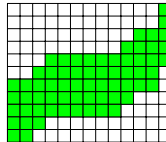
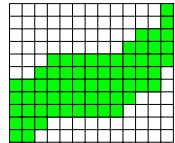
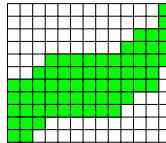
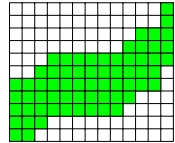
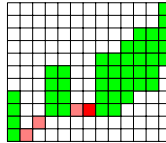
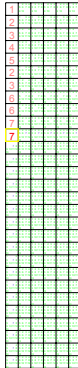
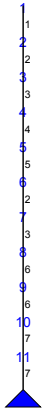


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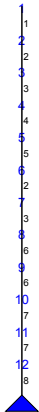




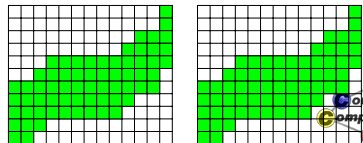
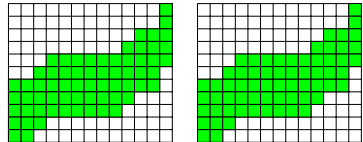
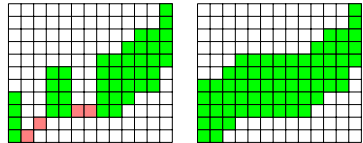
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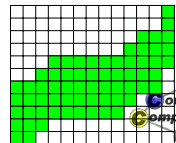
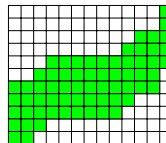
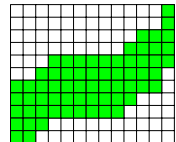
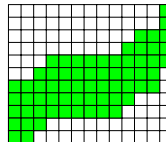
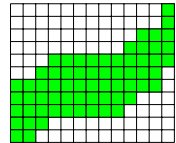
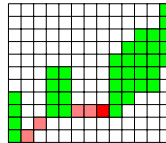
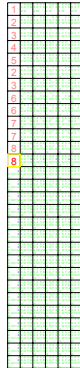
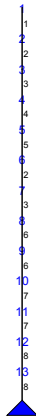


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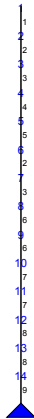




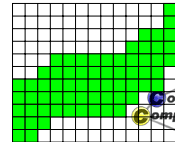
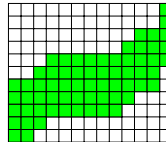
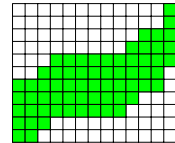
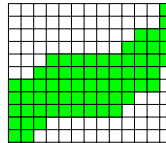
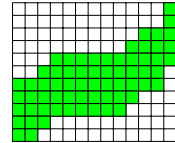
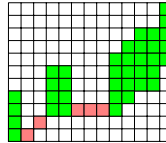
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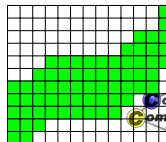
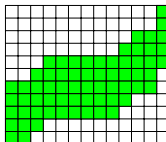
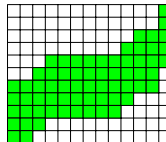
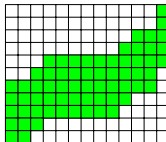
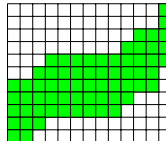
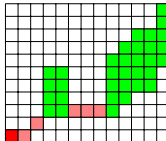
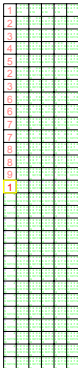
# Layered Search



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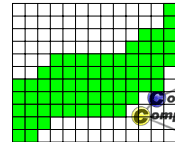
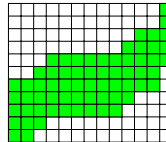
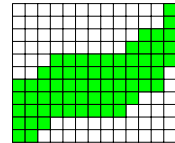
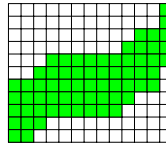
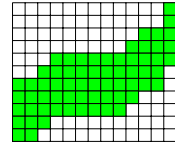
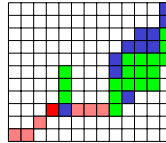
# Layered Search



# Layered Search



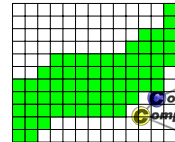
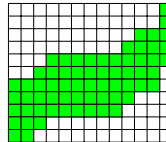
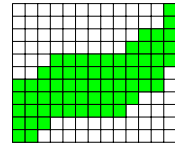
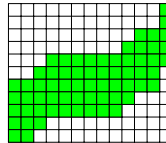
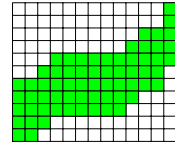
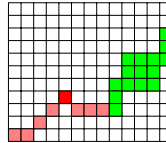
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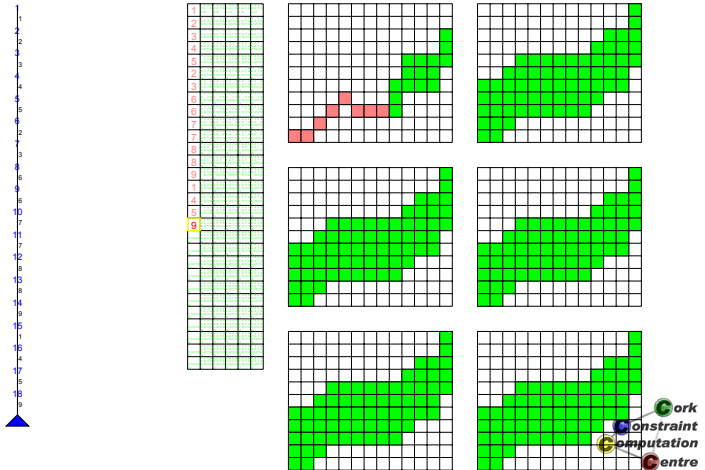
# Layered Search



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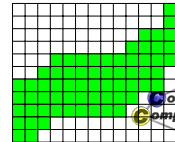
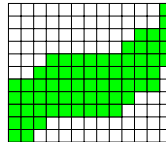
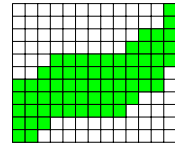
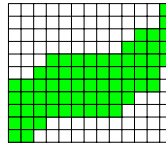
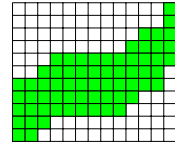
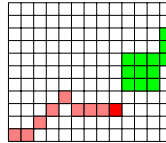
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# Layered Search



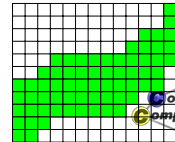
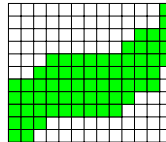
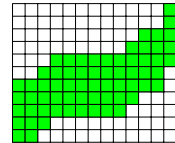
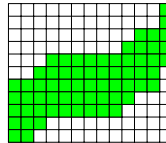
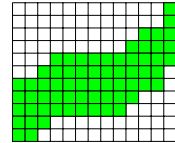
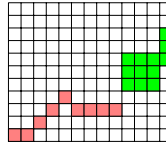
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# Layered Search



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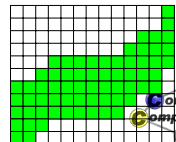
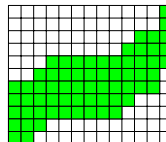
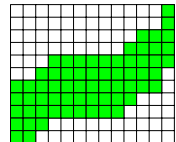
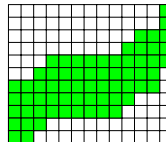
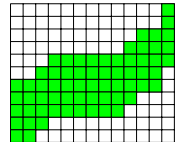
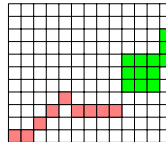




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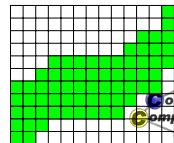
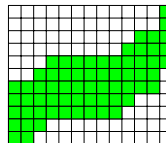
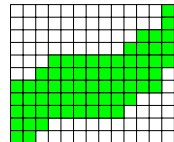
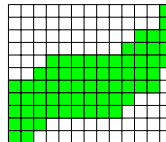
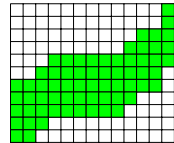
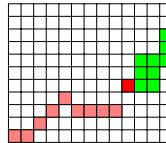
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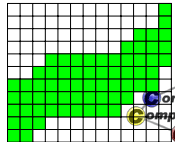
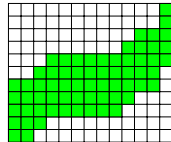
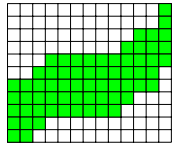
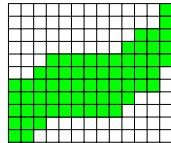
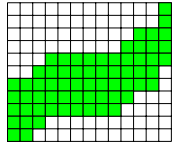
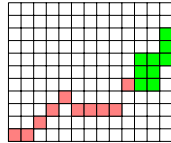
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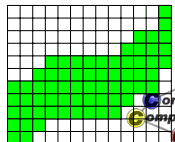
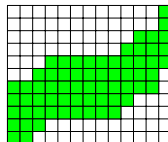
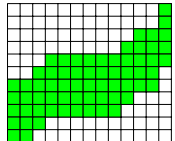
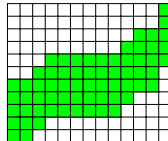
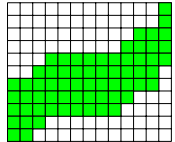
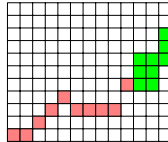
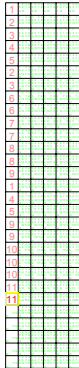
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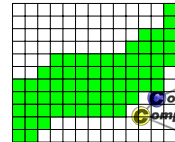
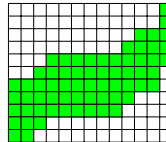
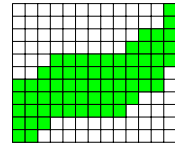
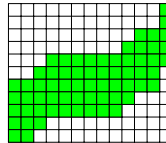
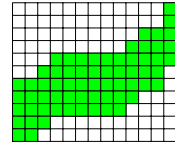
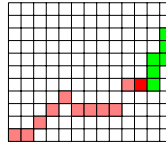
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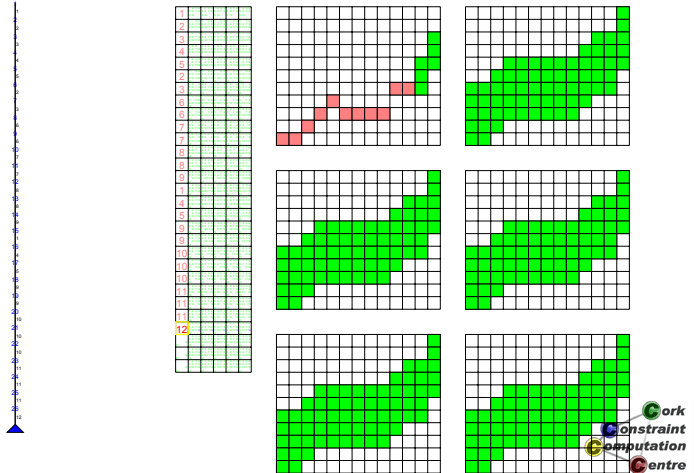
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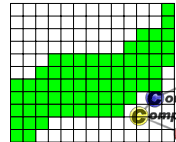
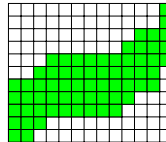
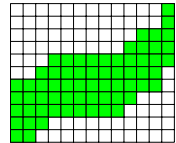
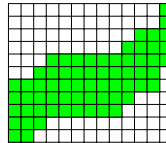
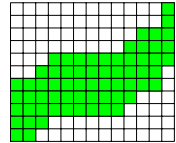
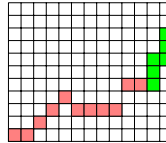
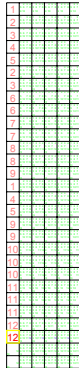
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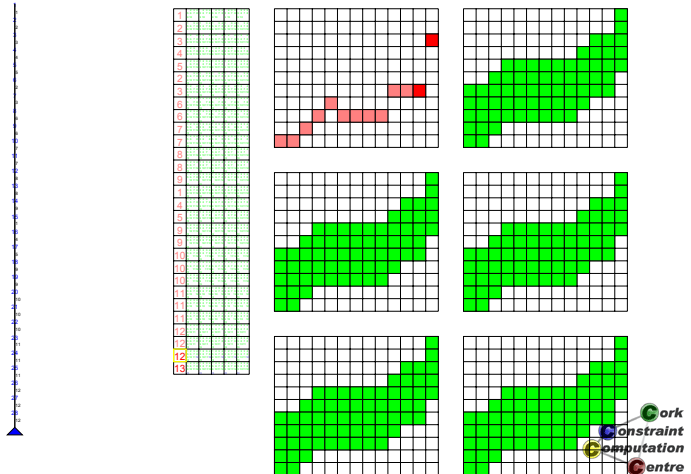
# Layered Search



# Layered Search

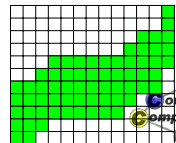
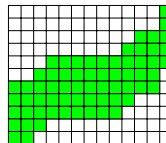
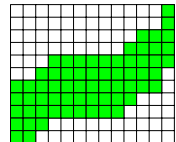
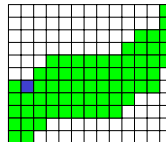
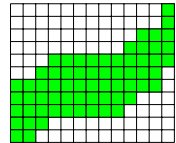
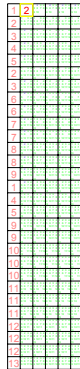


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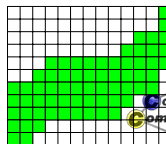
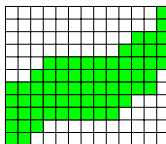
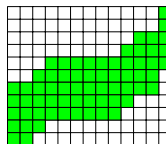
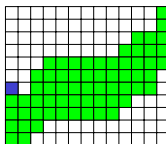
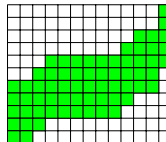
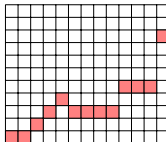
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# Layered Search



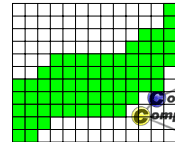
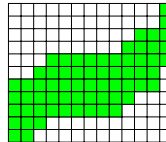
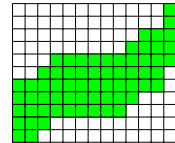
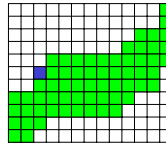
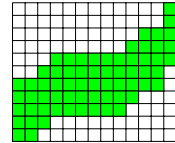
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# Layered Search



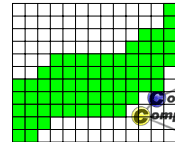
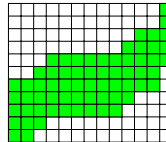
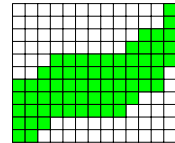
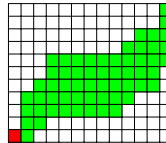
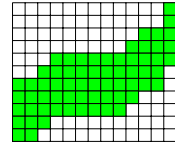
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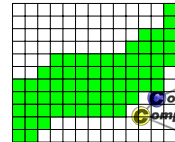
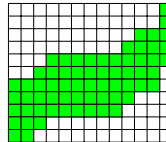
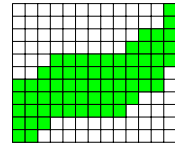
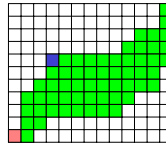
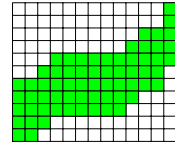
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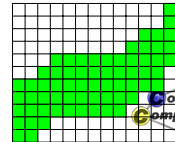
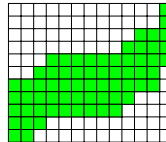
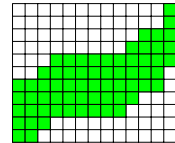
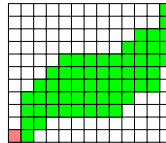
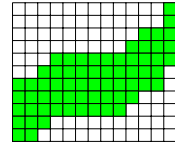
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# Layered Search



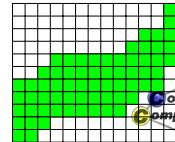
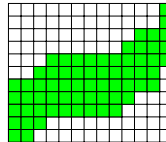
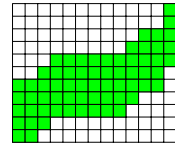
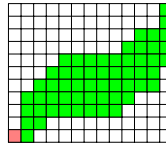
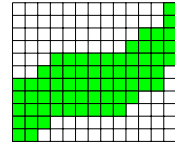
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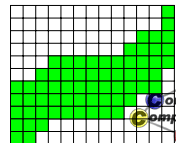
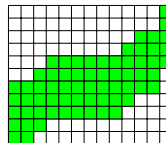
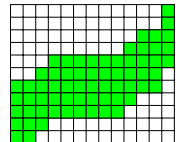
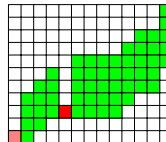
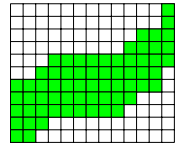
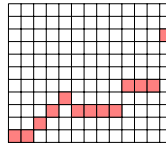
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# Layered Search



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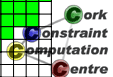
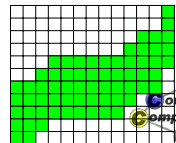
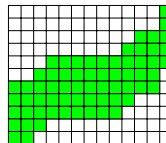
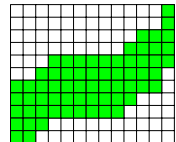
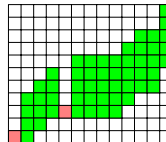
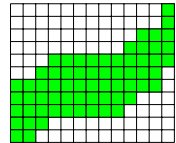




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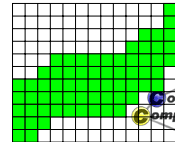
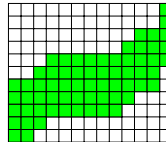
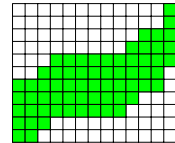
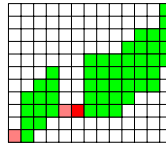
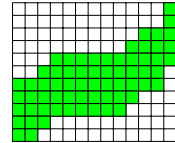
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# Layered Search



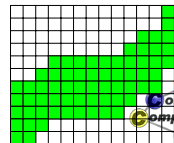
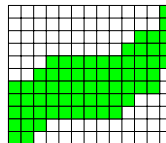
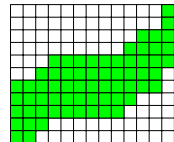
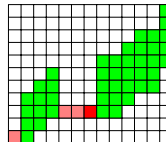
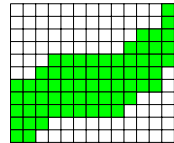
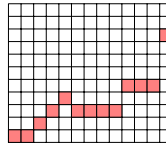
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# Layered Search



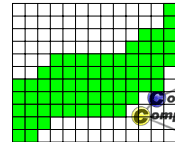
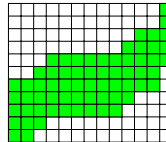
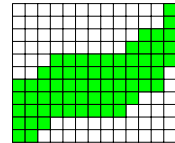
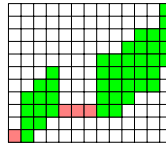
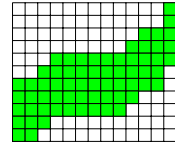
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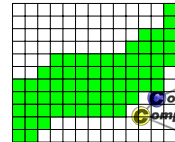
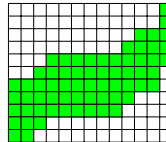
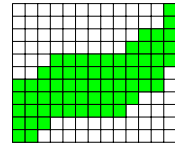
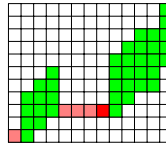
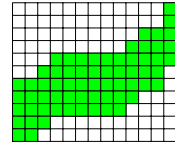
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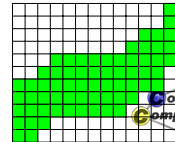
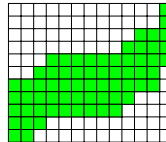
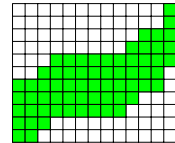
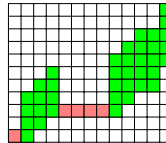
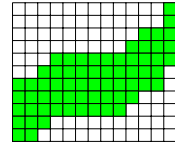
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# Layered Search



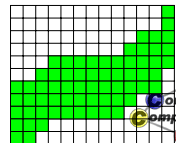
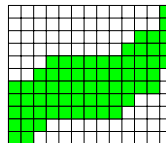
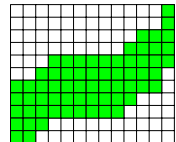
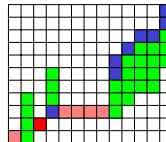
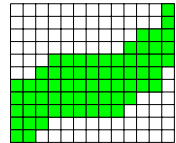
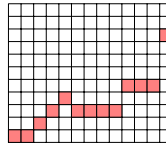
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# Layered Search



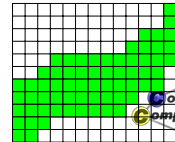
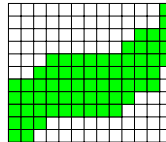
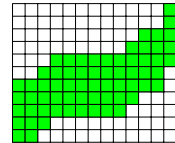
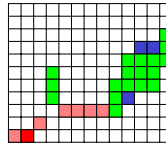
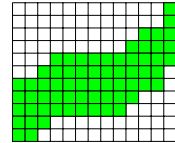
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# Layered Search



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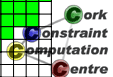
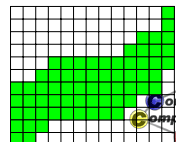
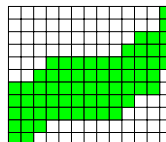
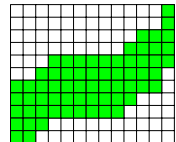
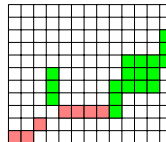
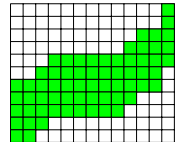
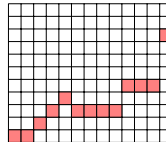




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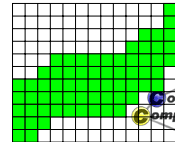
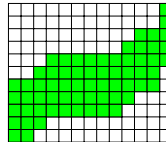
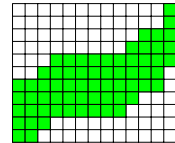
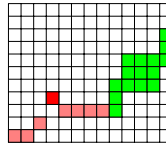
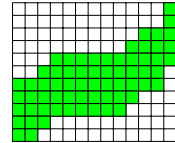
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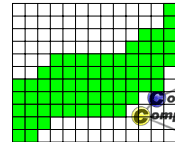
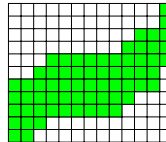
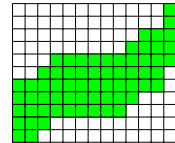
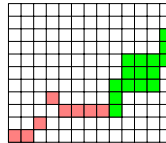
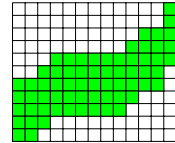
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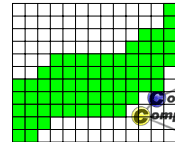
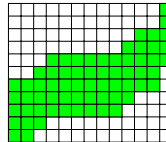
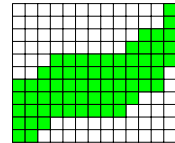
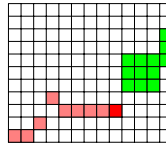
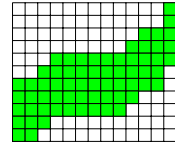
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# Layered Search



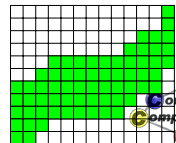
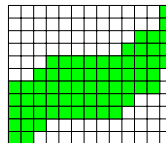
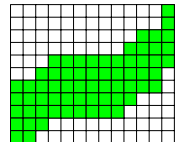
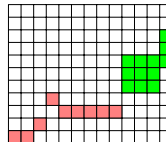
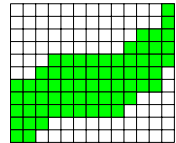
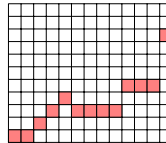
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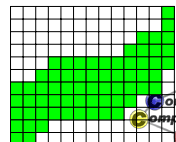
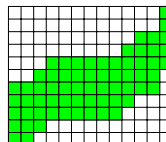
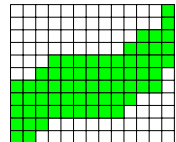
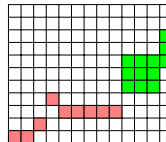
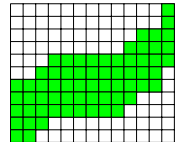
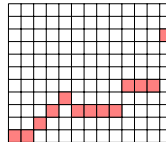
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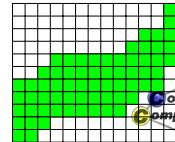
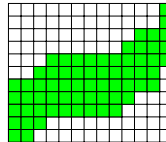
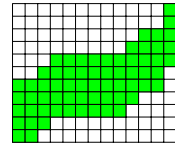
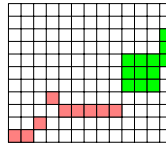
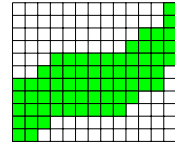
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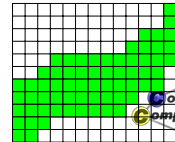
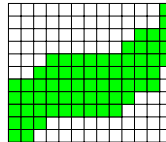
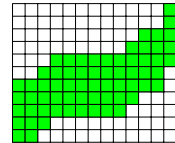
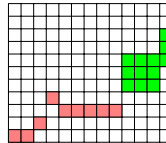
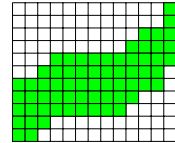
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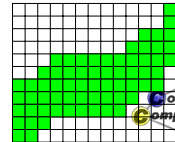
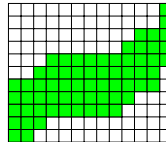
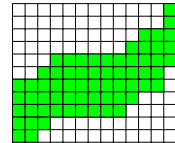
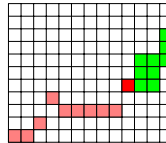
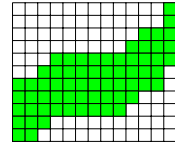
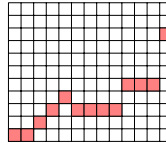
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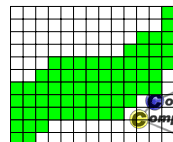
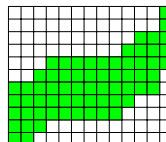
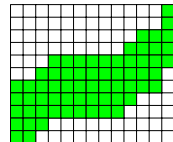
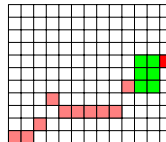
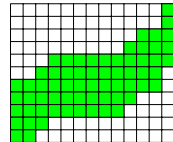
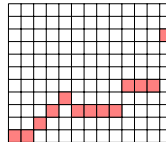
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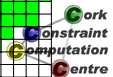
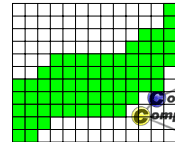
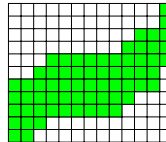
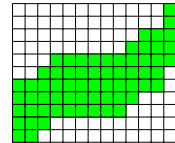
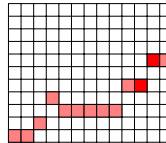
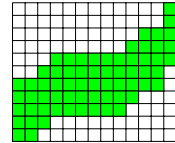
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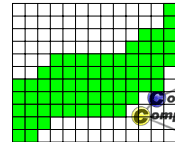
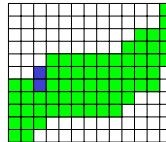
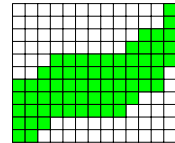
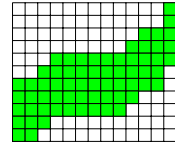
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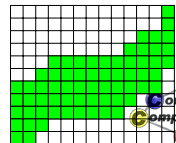
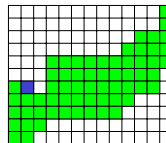
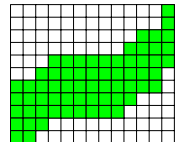
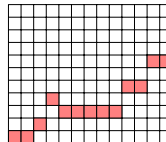
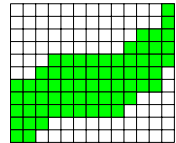
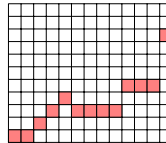
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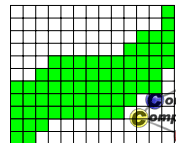
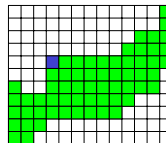
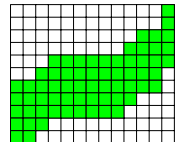
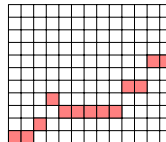
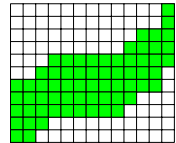
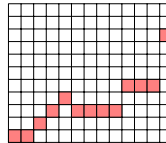


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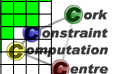
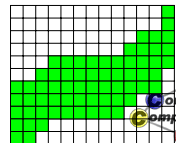
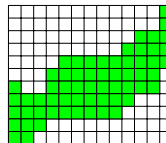
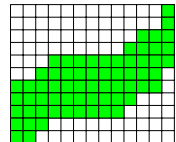
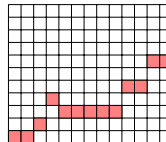
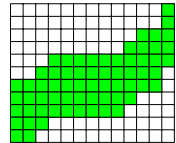
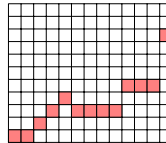
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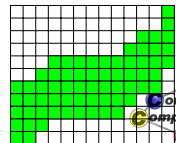
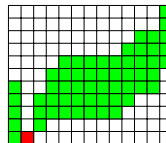
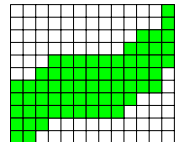
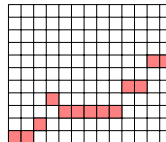
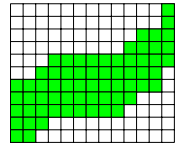
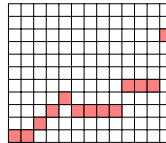
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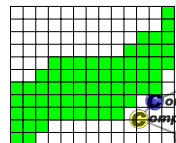
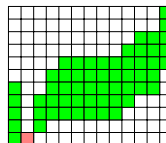
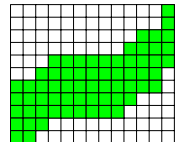
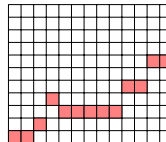
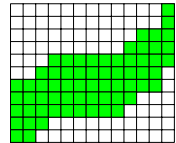
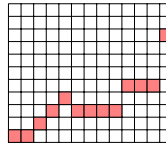
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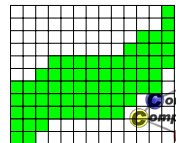
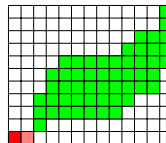
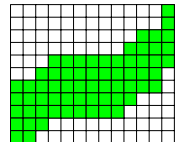
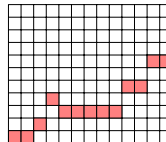
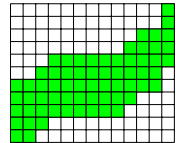
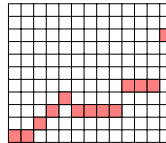
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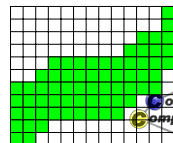
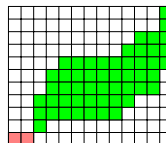
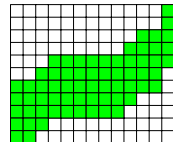
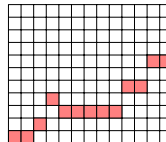
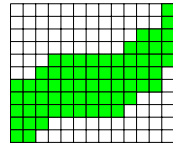
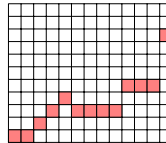
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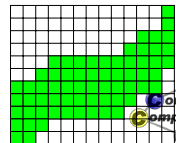
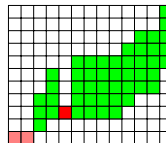
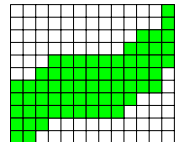
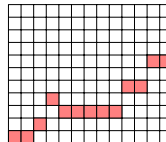
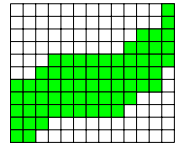
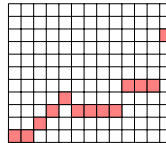
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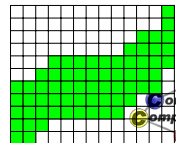
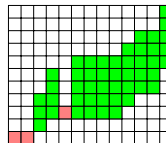
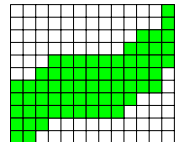
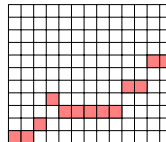
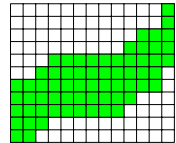
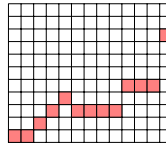
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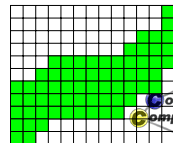
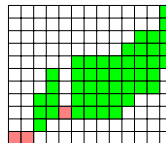
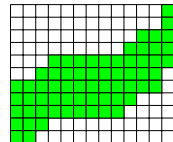
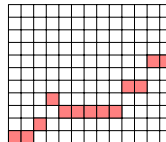
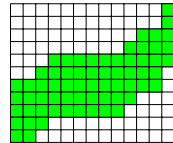
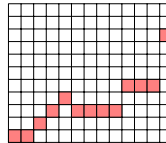
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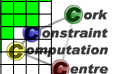
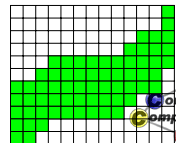
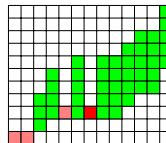
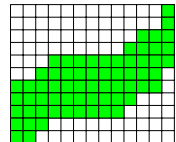
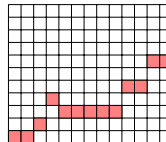
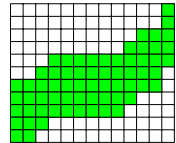
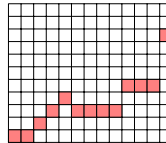
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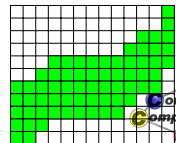
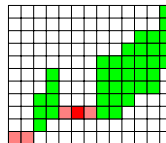
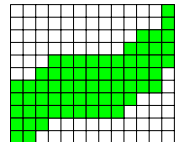
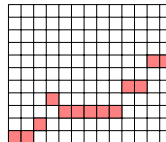
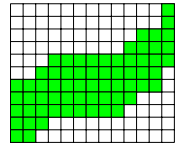
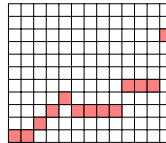
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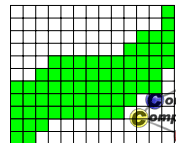
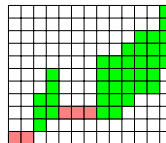
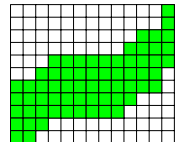
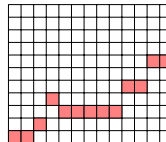
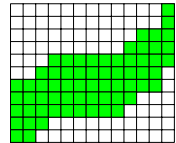
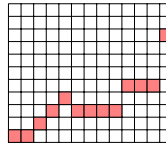
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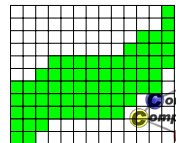
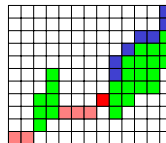
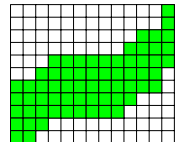
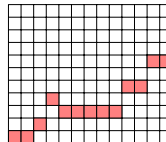
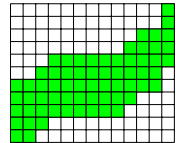
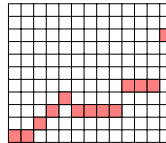
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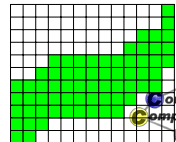
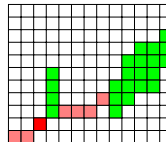
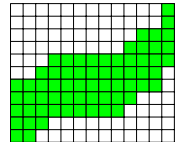
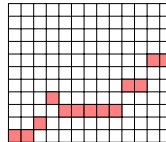
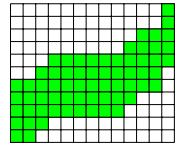
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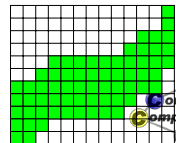
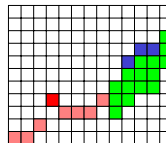
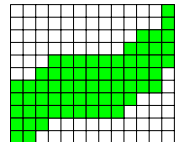
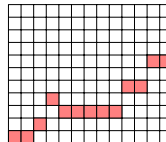
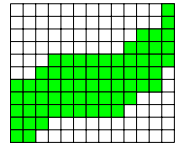
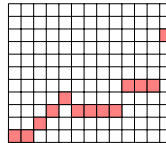
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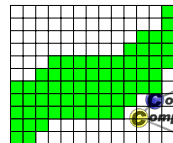
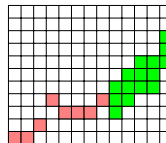
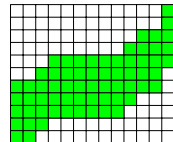
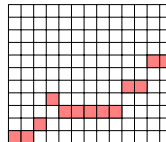
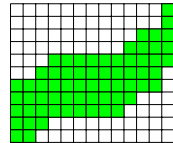
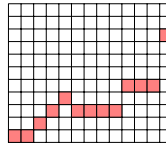
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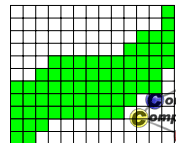
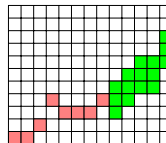
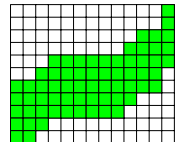
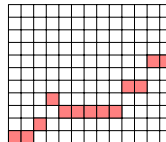
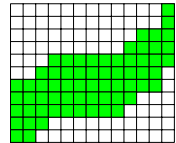
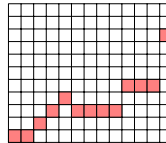
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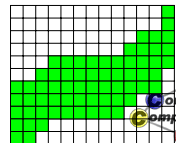
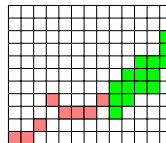
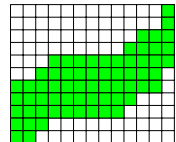
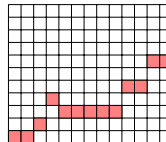
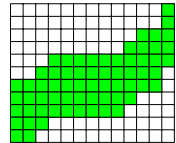
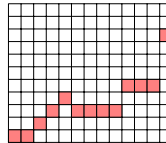
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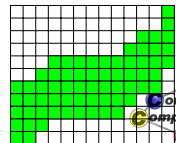
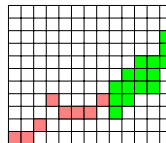
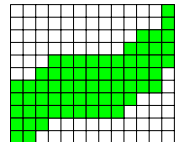
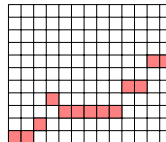
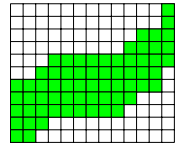
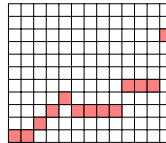
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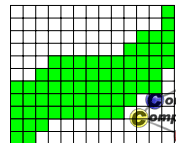
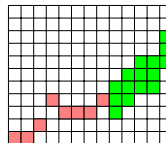
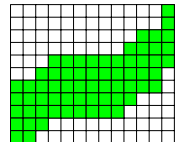
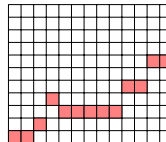
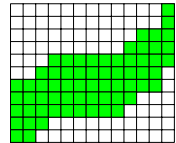
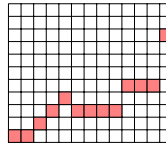
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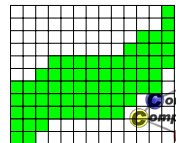
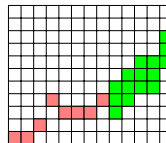
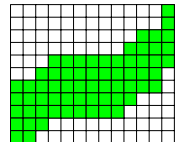
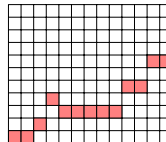
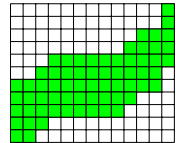
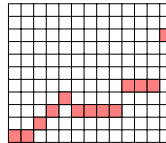
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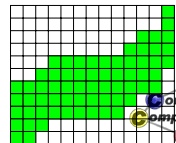
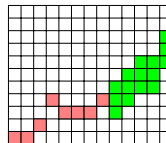
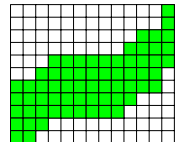
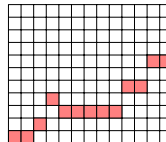
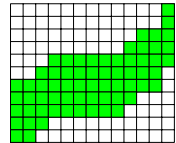
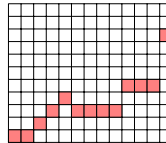
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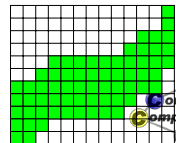
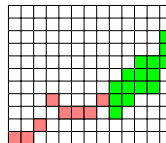
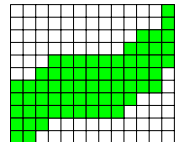
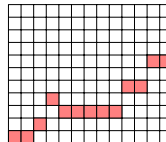
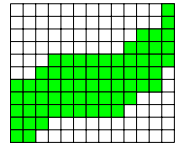
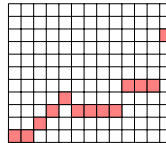
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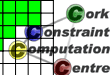
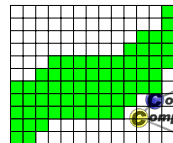
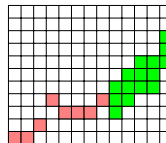
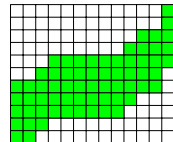
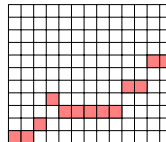
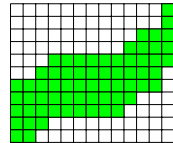
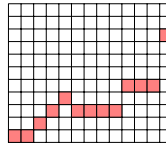
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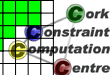
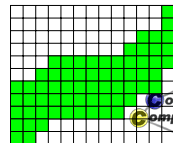
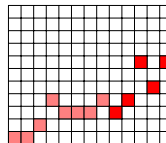
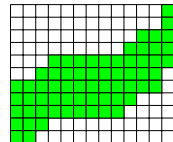
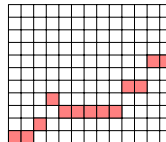
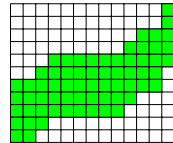
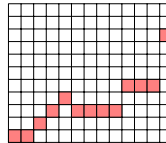
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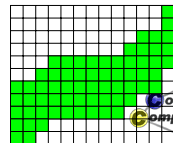
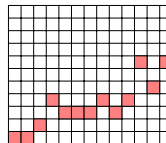
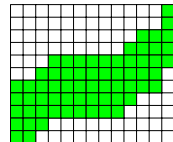
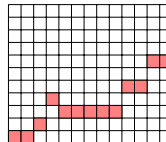
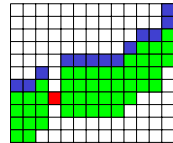
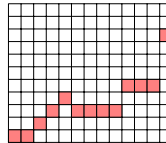
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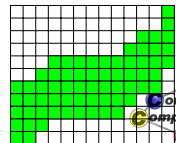
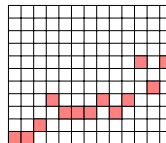
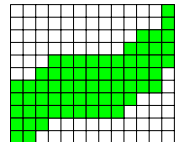
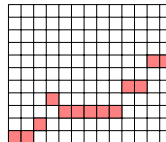
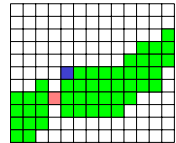
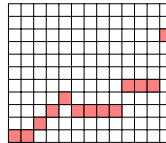
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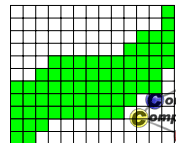
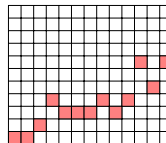
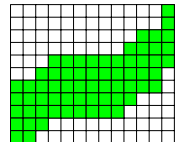
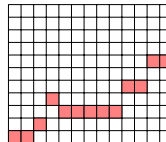
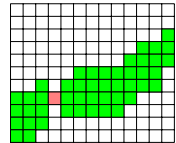
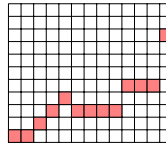
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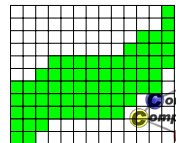
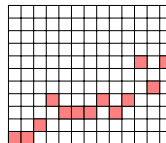
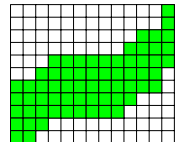
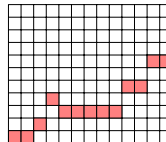
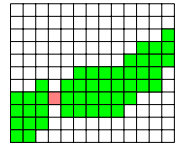
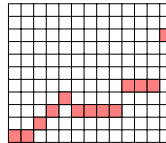
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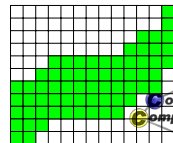
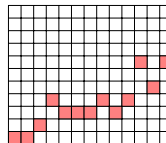
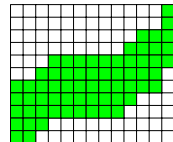
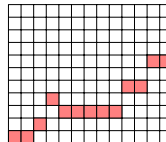
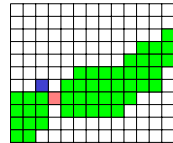
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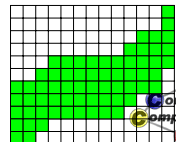
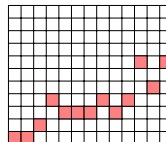
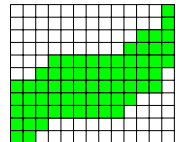
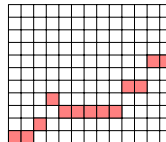
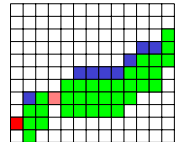
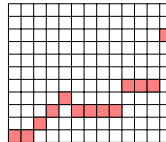
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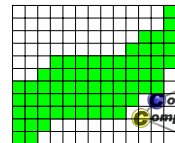
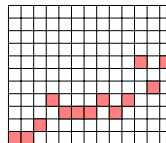
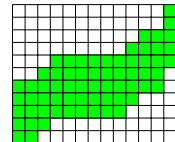
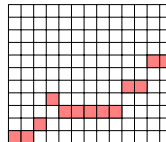
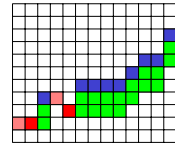
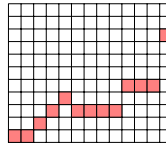


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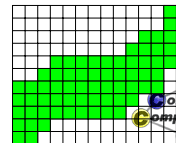
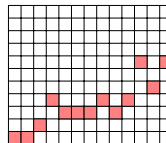
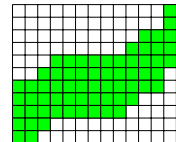
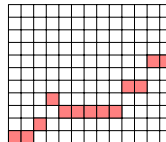
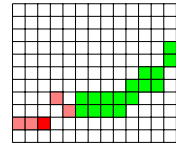
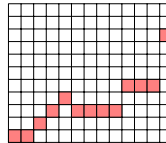
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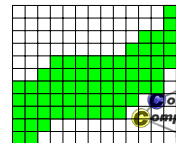
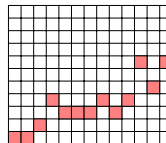
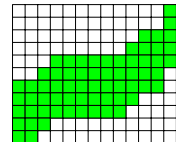
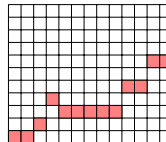
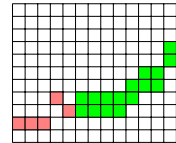
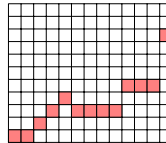
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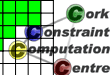
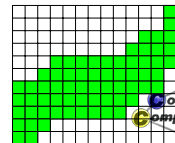
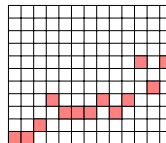
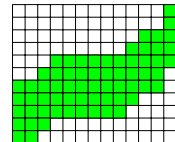
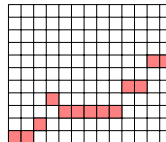
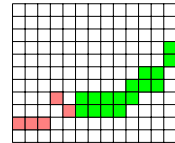
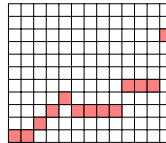
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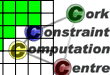
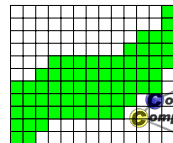
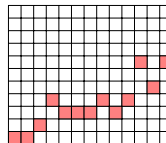
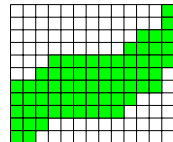
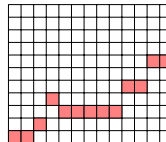
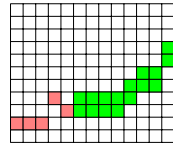
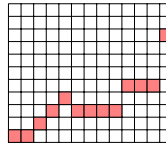
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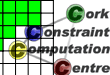
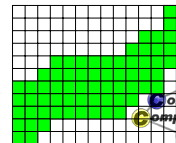
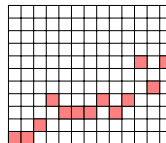
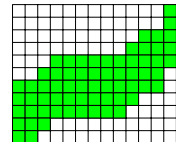
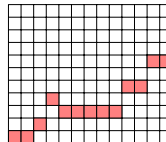
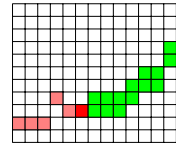
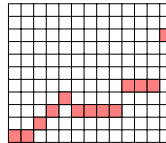
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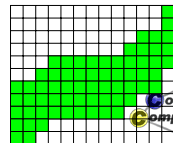
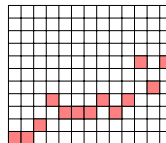
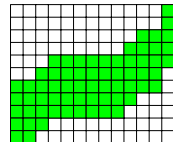
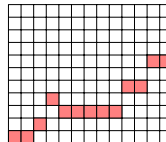
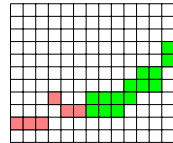
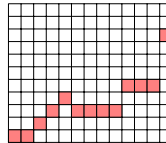
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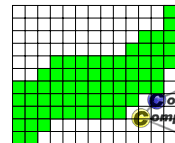
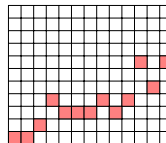
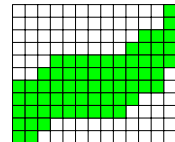
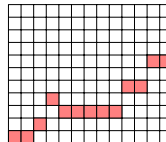
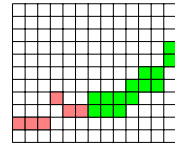
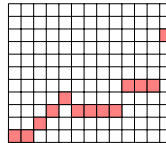
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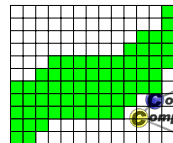
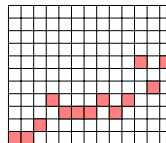
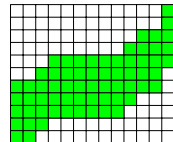
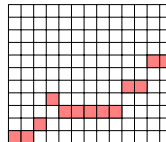
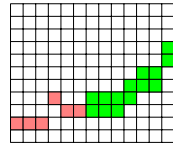
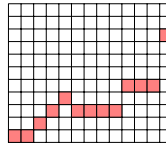
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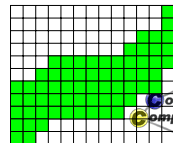
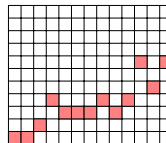
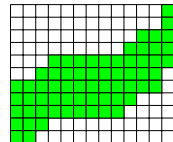
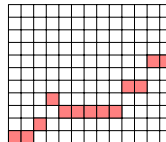
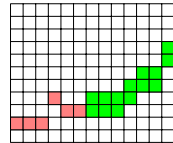
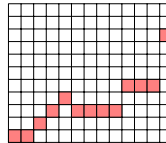
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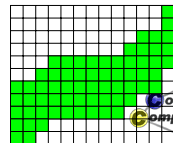
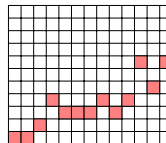
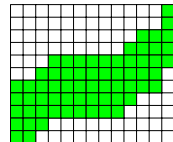
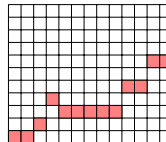
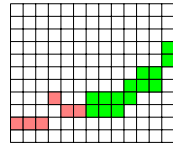
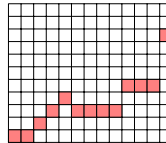
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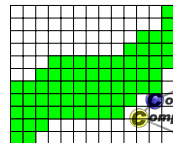
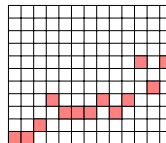
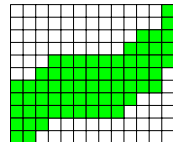
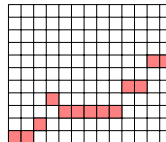
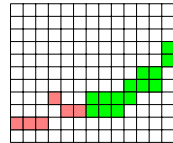
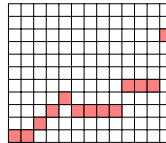
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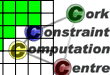
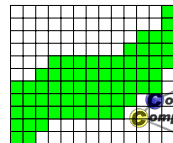
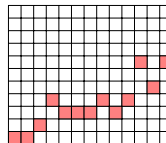
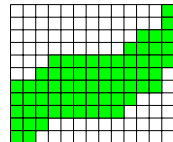
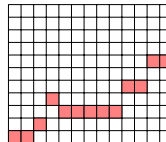
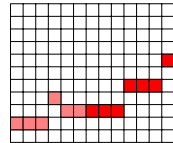
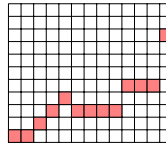
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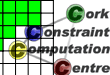
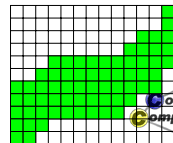
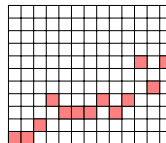
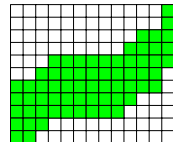
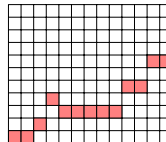
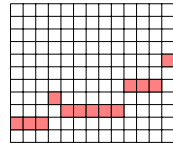
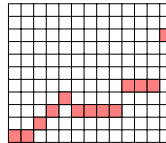
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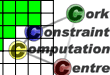
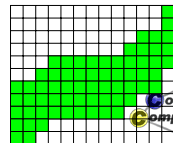
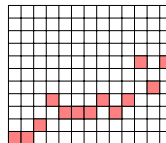
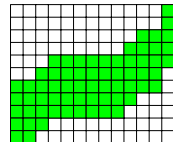
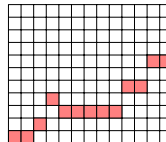
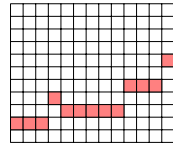
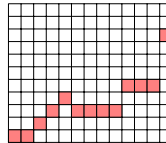
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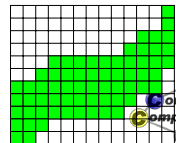
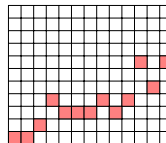
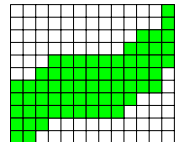
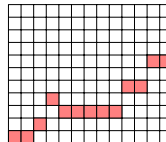
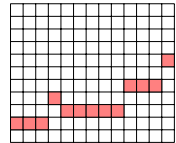
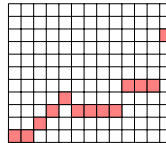
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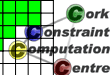
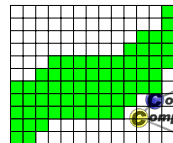
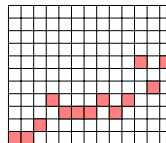
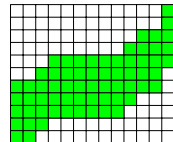
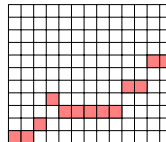
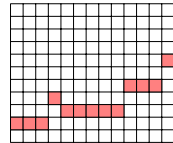
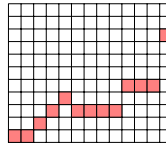
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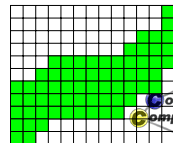
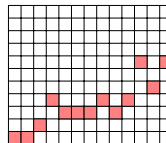
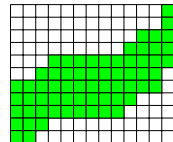
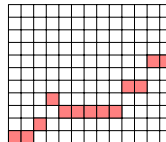
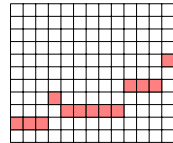
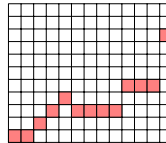
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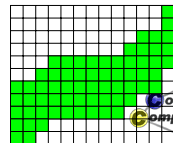
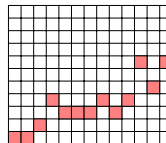
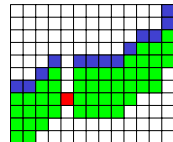
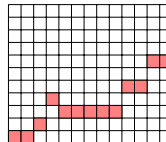
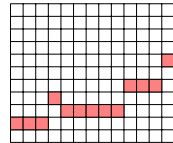
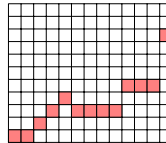
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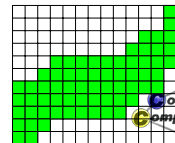
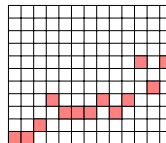
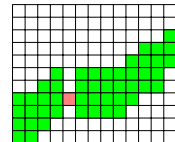
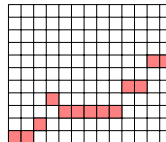
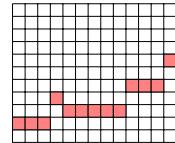
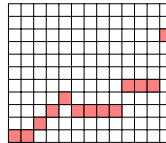
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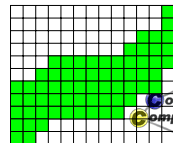
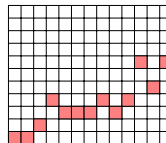
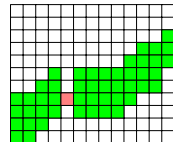
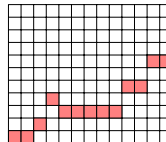
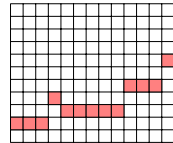




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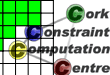
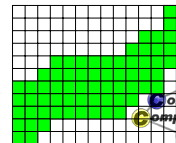
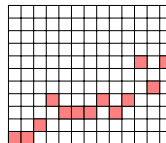
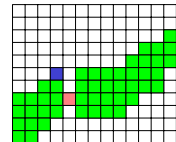
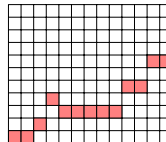
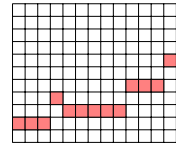
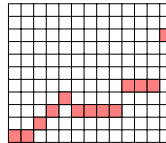


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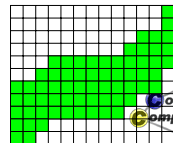
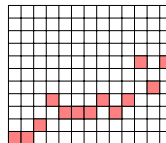
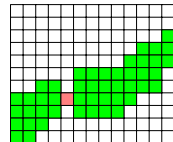
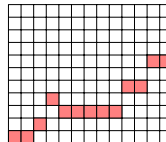
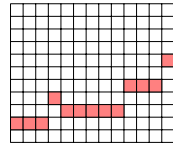
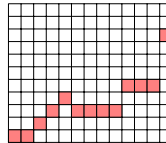
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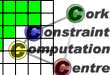
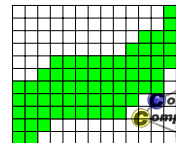
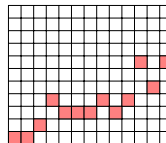
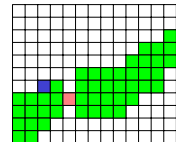
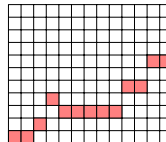
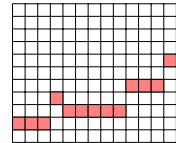
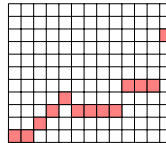
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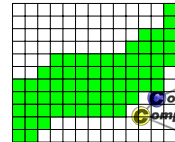
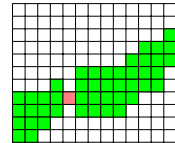
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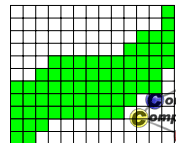
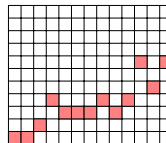
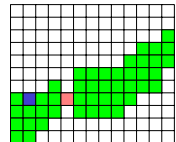
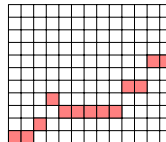
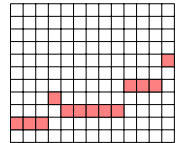
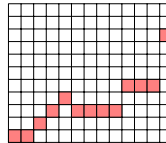


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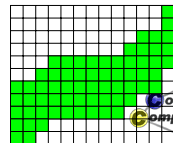
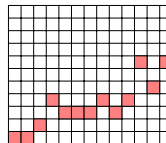
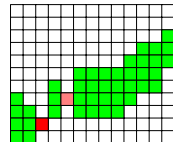
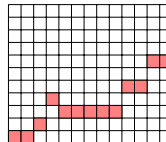
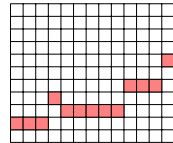
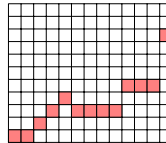
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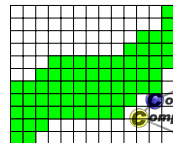
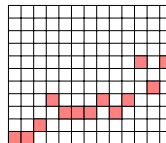
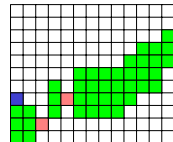
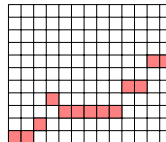
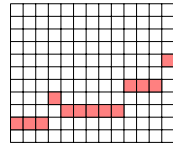
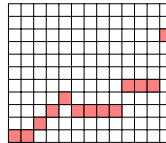
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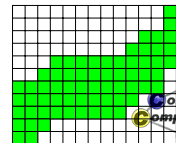
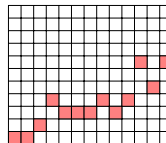
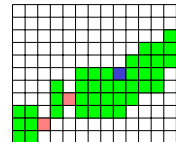
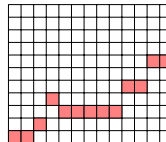
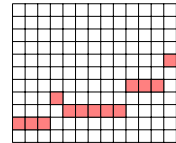
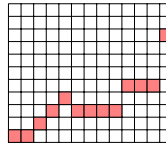
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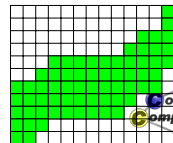
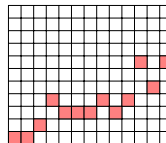
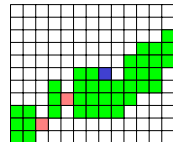
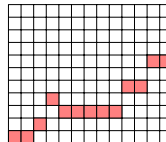
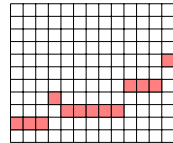
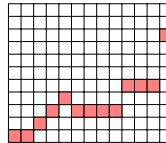
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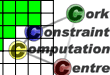
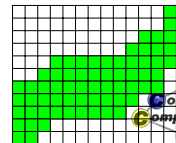
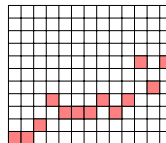
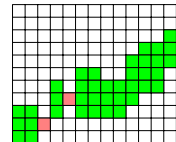
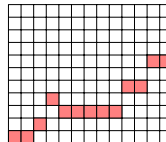
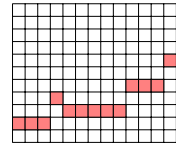
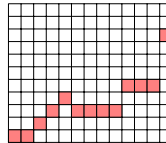


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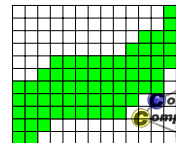
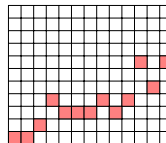
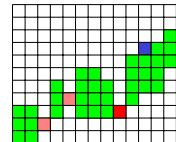
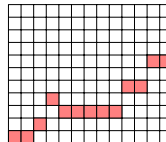
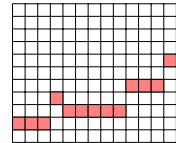
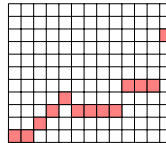
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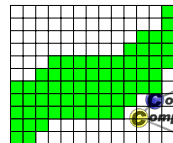
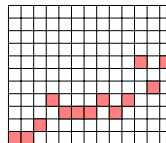
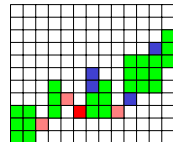
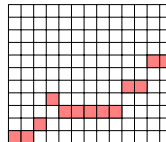
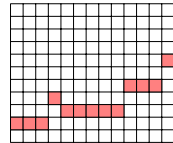
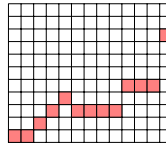
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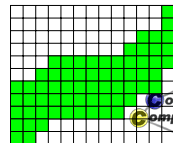
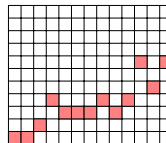
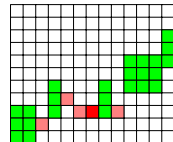
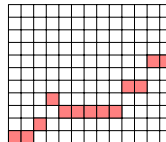
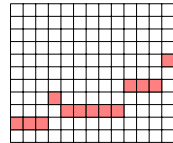
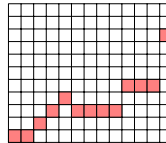
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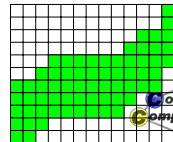
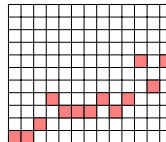
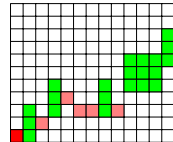
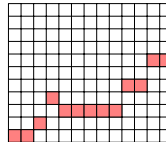
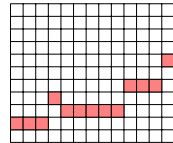
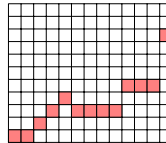
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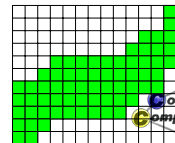
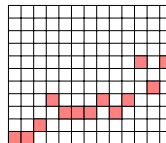
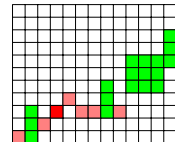
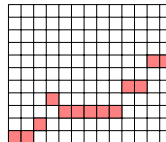
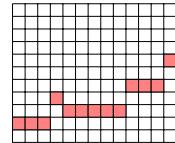
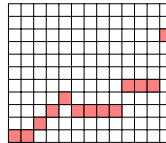
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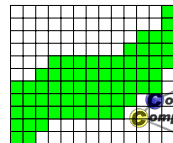
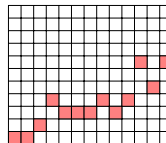
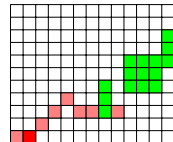
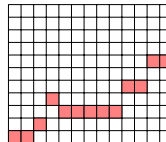
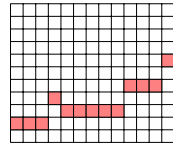
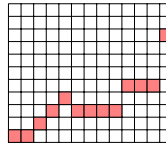
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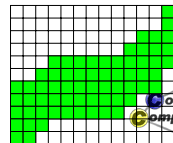
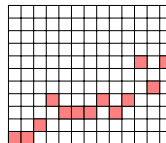
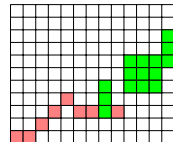
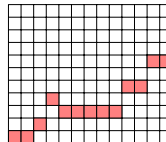
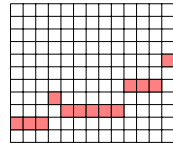
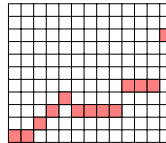
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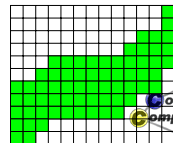
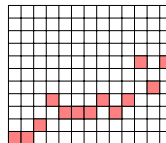
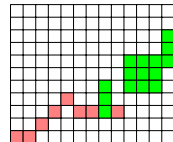
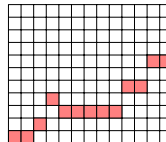
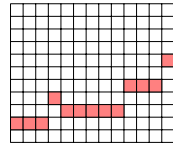
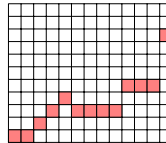
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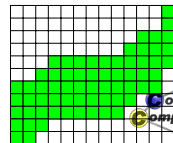
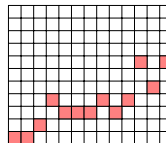
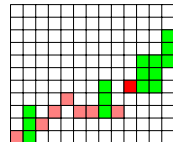
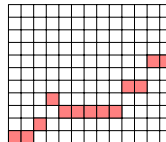
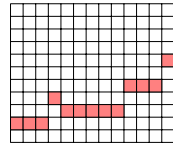
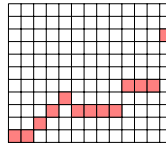
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# Layered Search



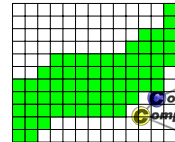
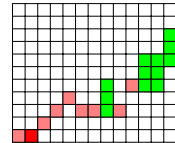
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# Layered Search

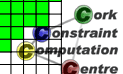
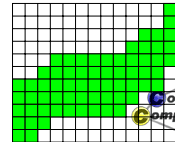
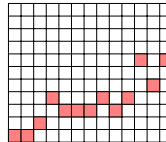
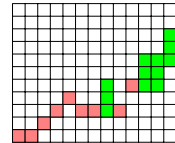
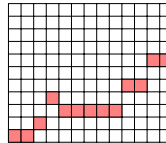
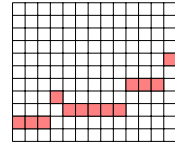
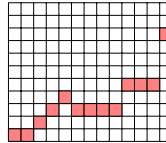


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# Layered Search

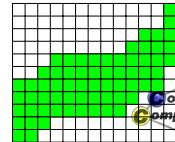
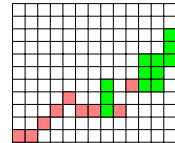
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# Layered Search



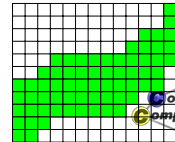
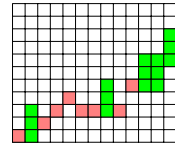
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# Layered Search



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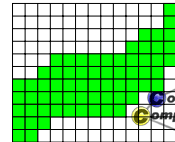
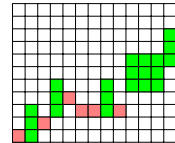




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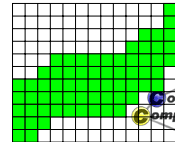
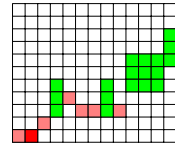
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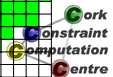
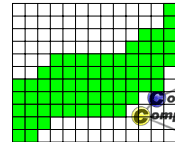
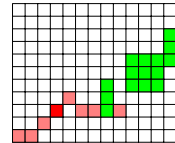
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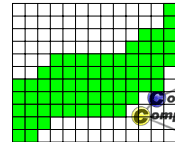
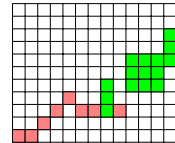
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# Layered Search



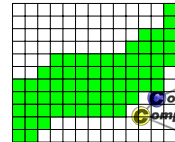
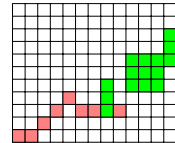
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# Layered Search



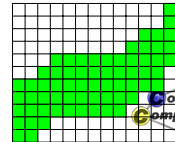
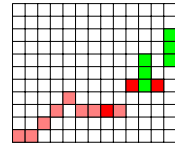
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# Layered Search



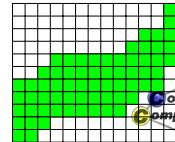
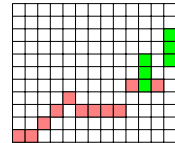
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# Layered Search



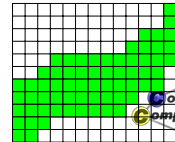
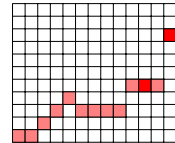
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# Layered Search



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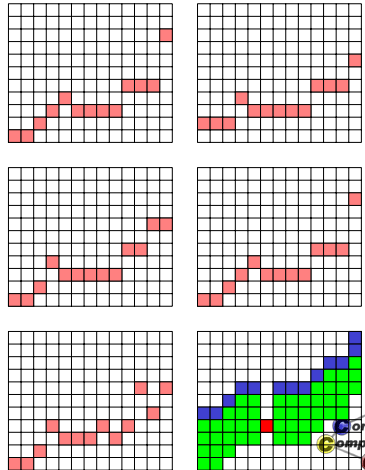




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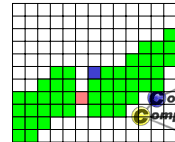
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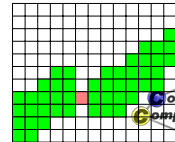
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11	13	12	9	10	30
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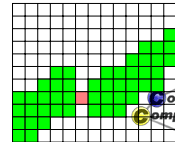
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# Layered Search



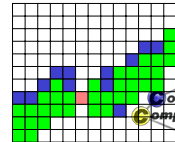
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# Layered Search



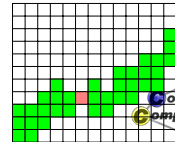
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# Layered Search



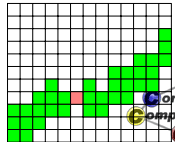
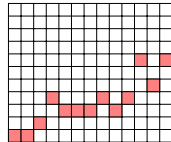
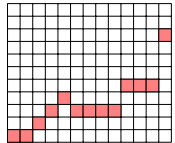
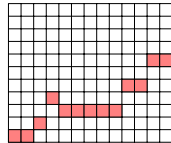
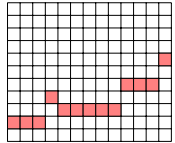
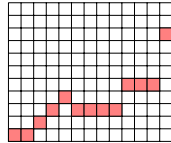
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# Layered Search



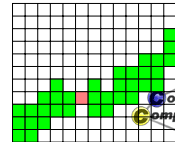
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# Layered Search



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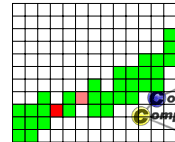




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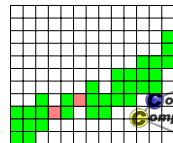
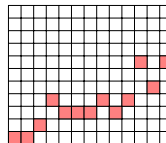
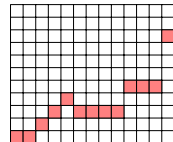
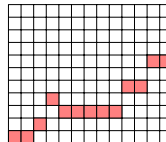
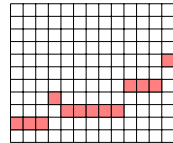
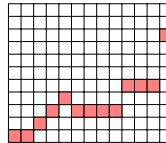
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# Layered Search



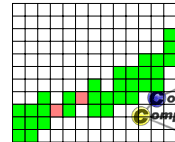
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# Layered Search



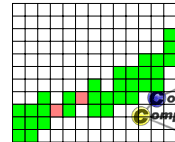
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# Layered Search



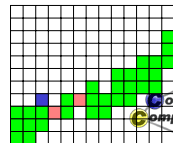
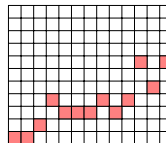
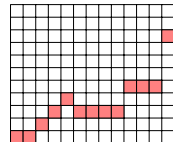
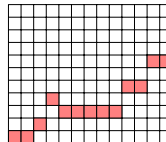
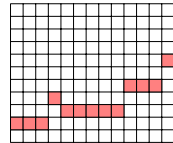
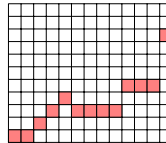
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# Layered Search



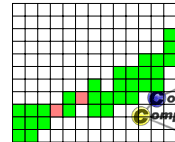
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# Layered Search



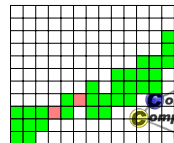
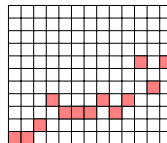
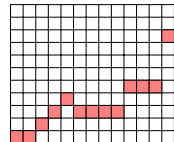
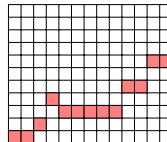
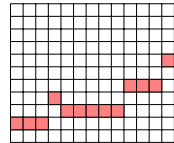
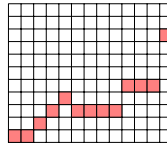
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# Layered Search



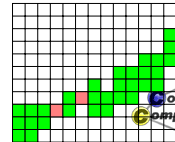
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# Layered Search



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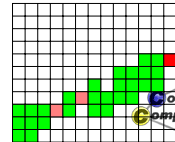




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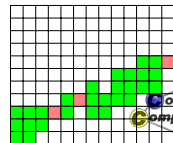
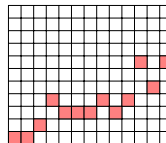
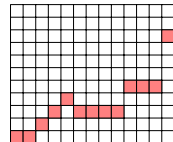
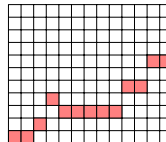
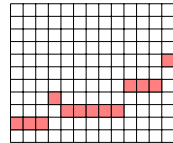
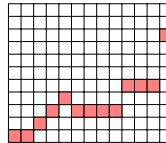
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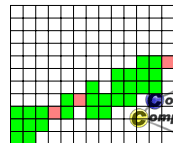
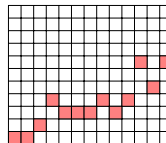
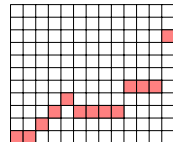
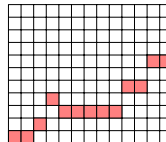
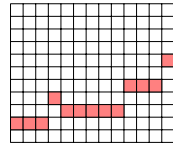
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# Layered Search



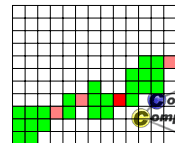
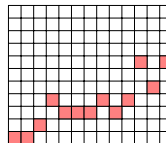
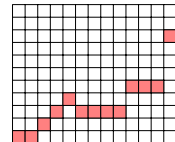
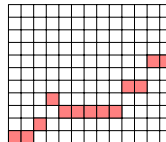
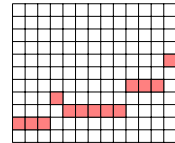
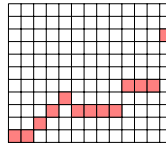
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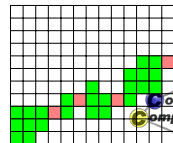
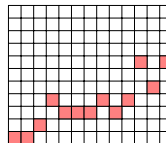
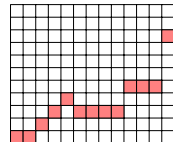
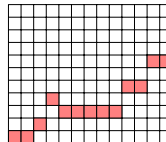
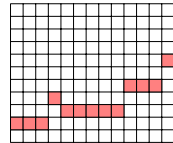
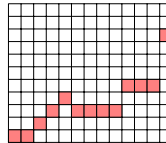
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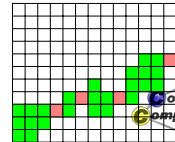
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# Layered Search



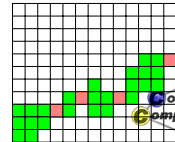
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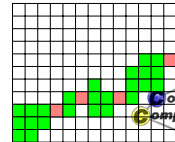
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# Layered Search



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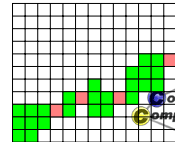




# Layered Search



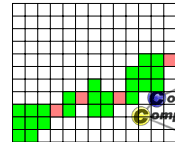
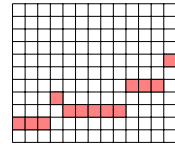
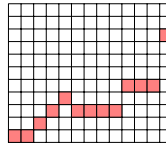
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# Layered Search



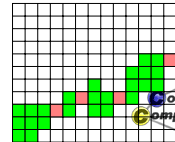
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# Layered Search



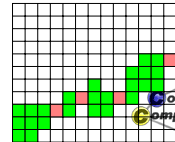
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# Layered Search



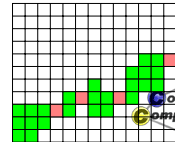
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# Layered Search



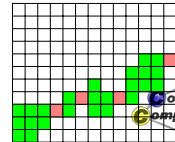
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# Layered Search



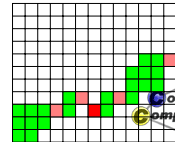
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# Layered Search



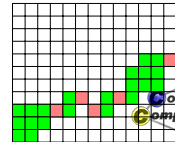
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# Layered Search



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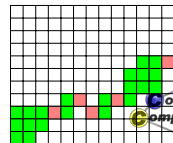
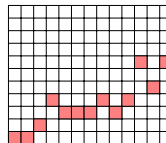
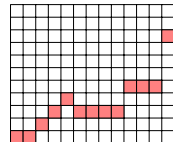
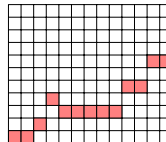
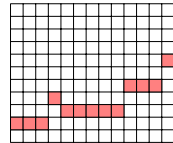




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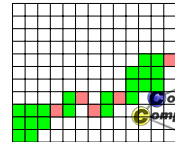
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# Layered Search



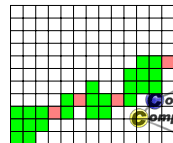
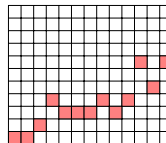
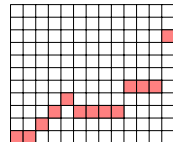
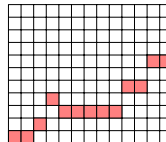
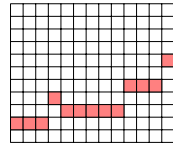
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# Layered Search



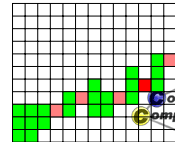
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# Layered Search



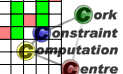
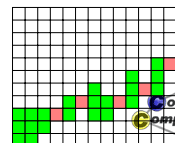
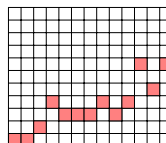
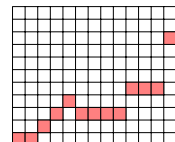
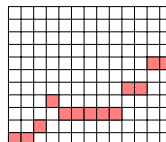
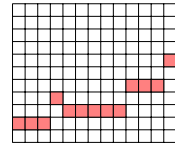
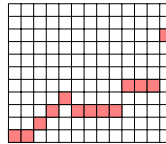
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# Layered Search



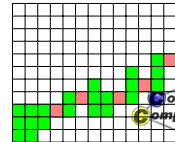
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# Layered Search



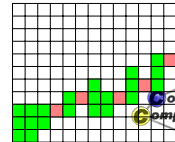
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# Layered Search



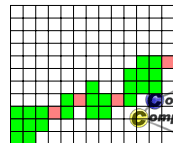
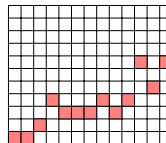
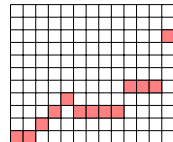
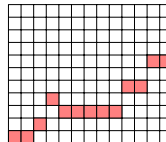
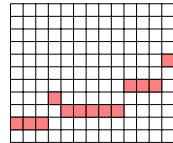
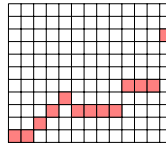
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# Layered Search



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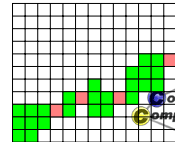




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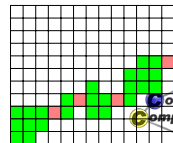
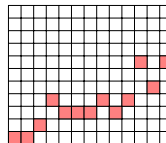
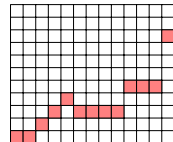
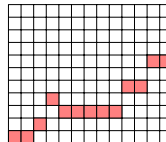
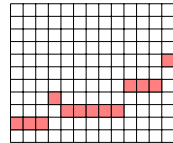
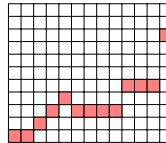
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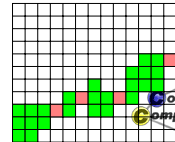
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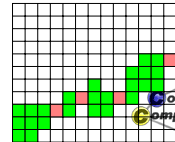
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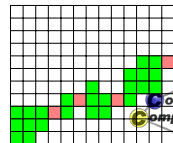
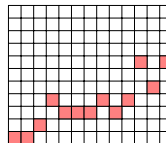
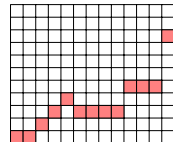
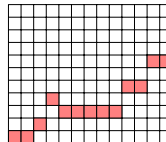
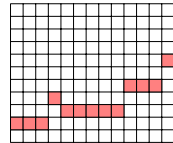
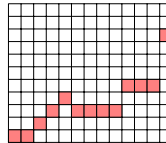
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# Layered Search



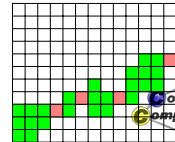
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# Layered Search



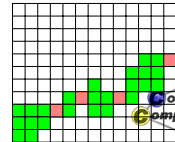
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# Layered Search



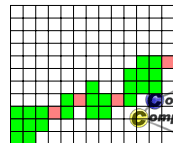
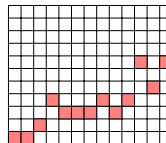
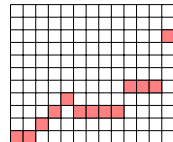
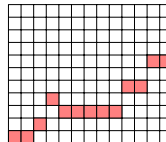
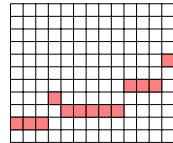
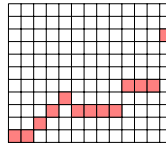
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# Layered Search



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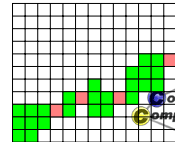




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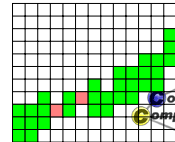
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# Layered Search



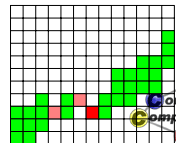
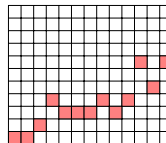
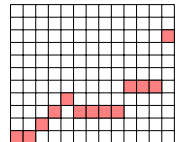
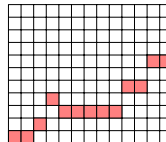
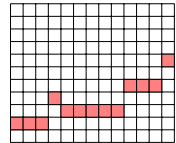
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# Layered Search



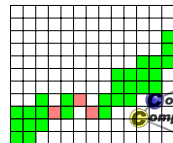
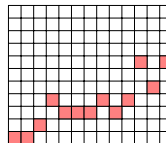
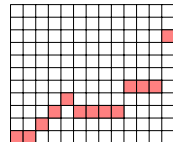
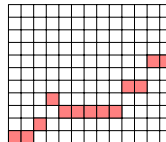
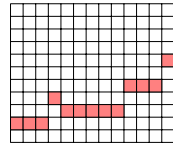
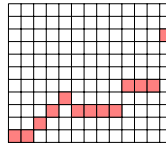
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# Layered Search



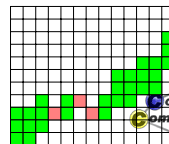
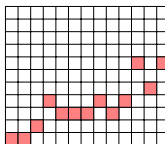
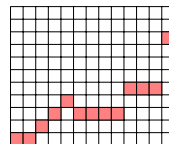
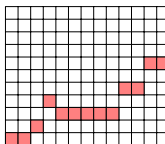
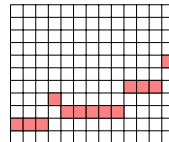
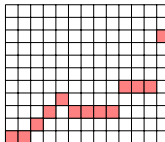
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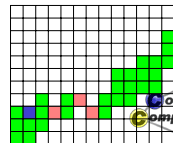
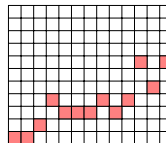
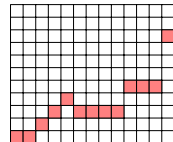
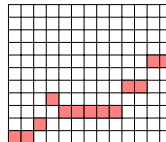
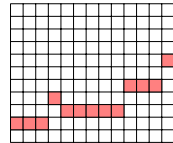
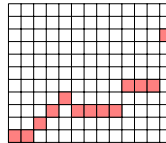
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# Layered Search



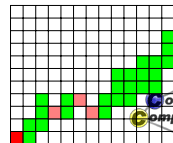
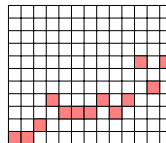
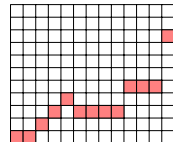
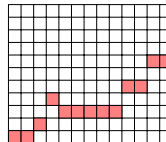
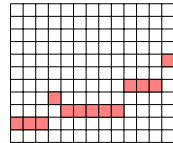
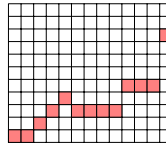
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# Layered Search



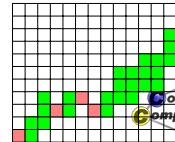
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# Layered Search



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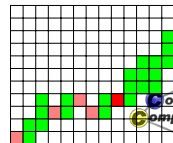
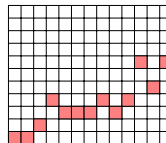
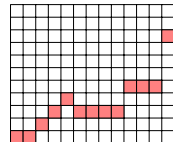
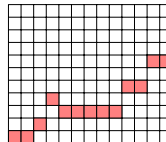
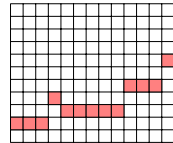




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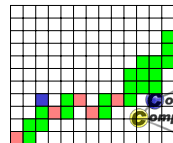
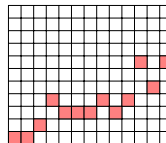
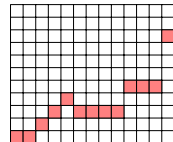
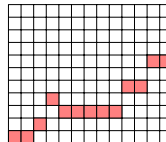
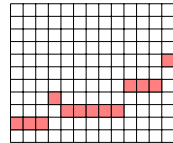
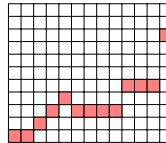
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# Layered Search



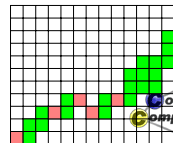
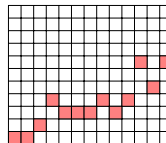
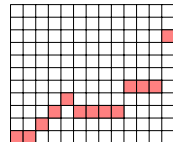
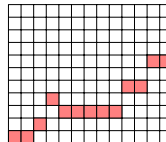
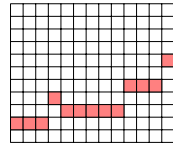
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11	13	12	9	10	2
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# Layered Search



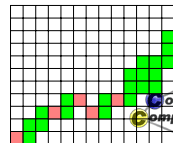
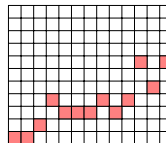
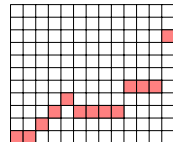
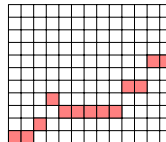
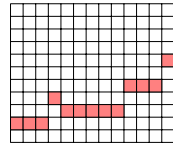
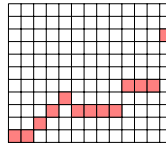
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# Layered Search



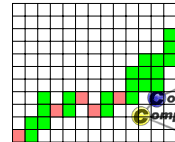
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# Layered Search



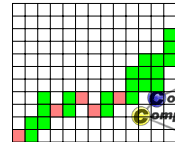
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# Layered Search



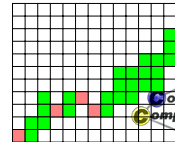
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# Layered Search



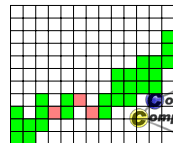
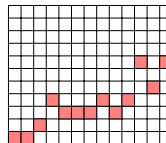
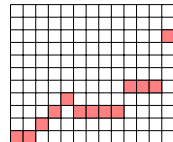
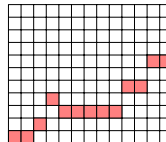
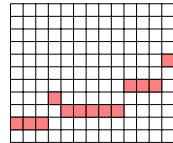
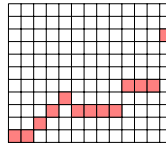
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# Layered Search



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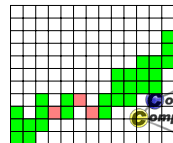
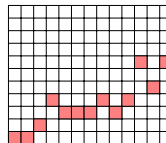
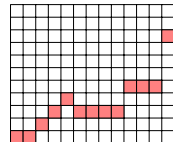
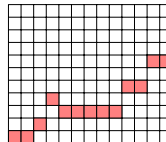
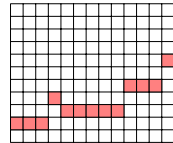




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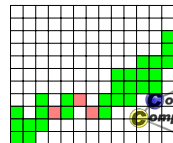
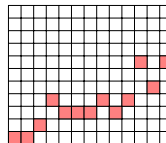
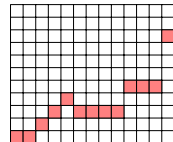
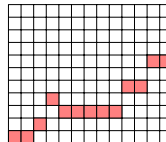
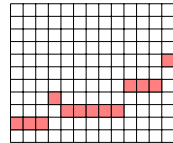
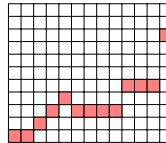
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# Layered Search



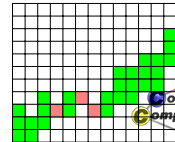
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# Layered Search



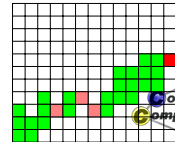
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# Layered Search



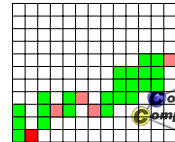
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# Layered Search



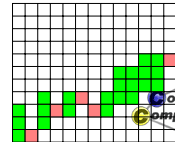
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# Layered Search



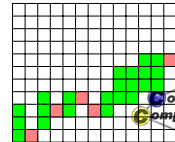
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# Layered Search



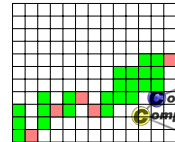
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# Layered Search



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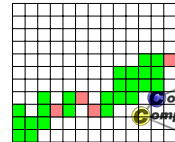




# Layered Search



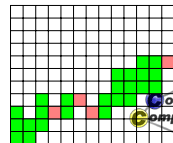
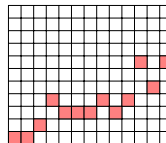
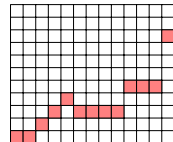
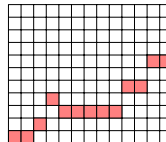
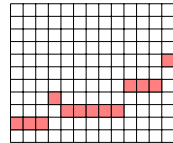
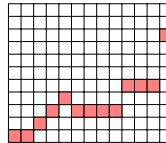
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# Layered Search



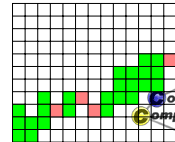
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# Layered Search



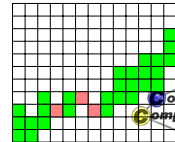
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# Layered Search



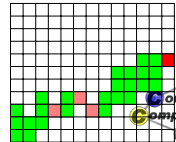
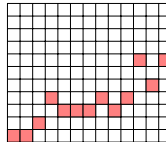
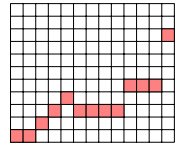
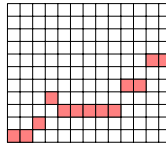
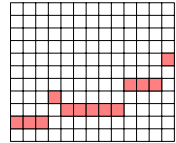
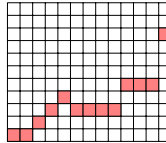
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# Layered Search



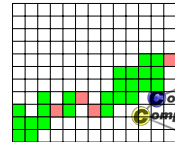
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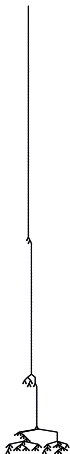
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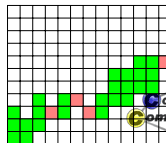
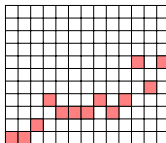
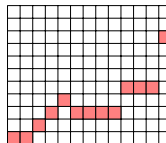
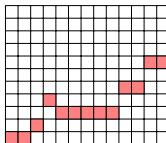
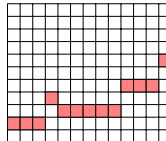
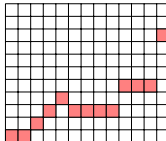
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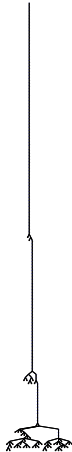
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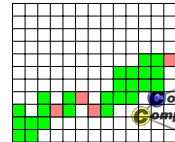
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# Layered Search



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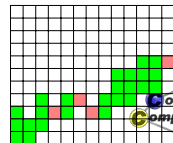
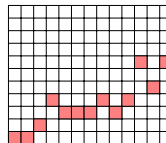
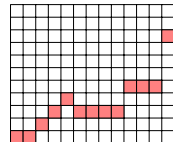
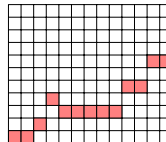
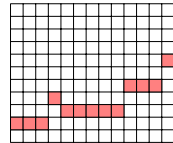




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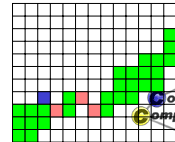
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# Layered Search



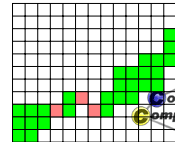
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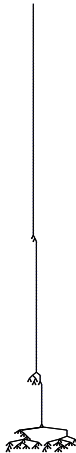
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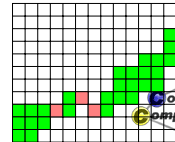
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# Layered Search



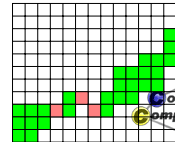
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# Layered Search



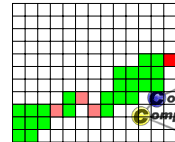
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# Layered Search



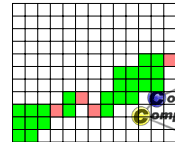
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# Layered Search



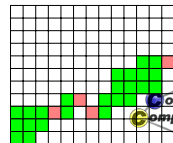
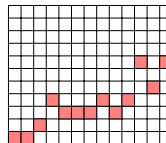
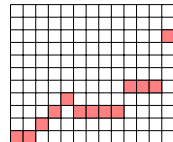
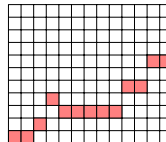
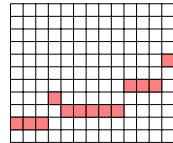
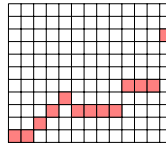
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# Layered Search

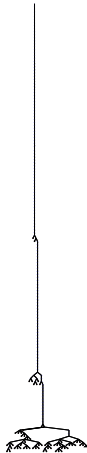


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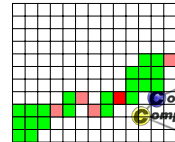




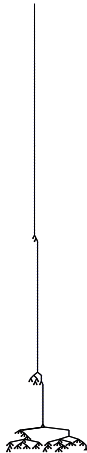
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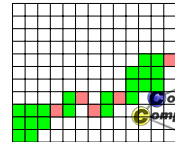
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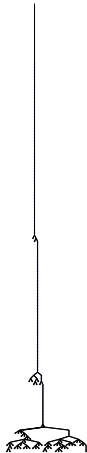
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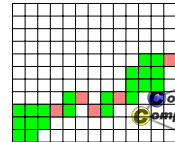
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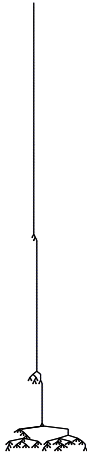
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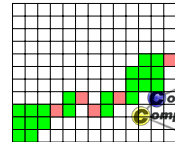
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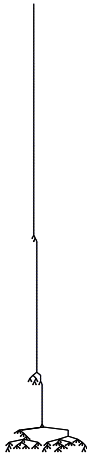
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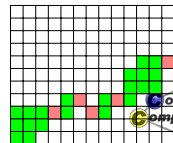
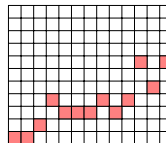
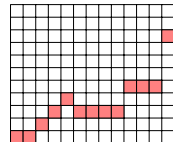
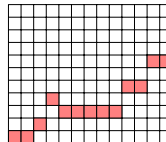
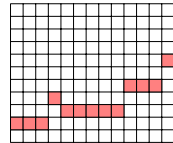
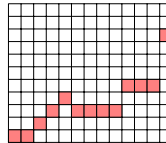
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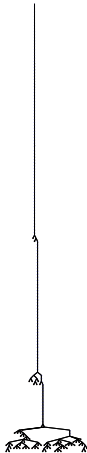
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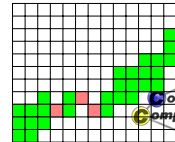
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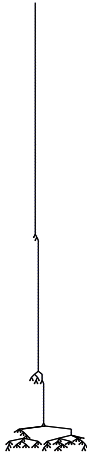
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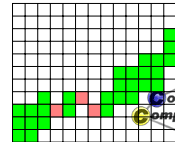
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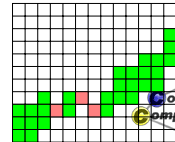
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# Layered Search



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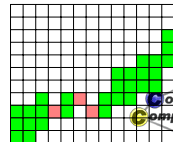
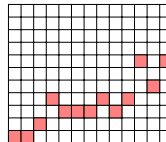
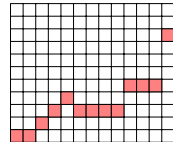
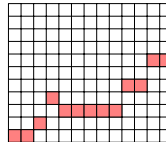
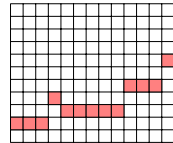




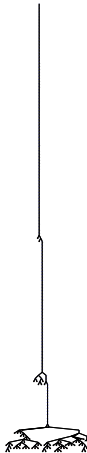
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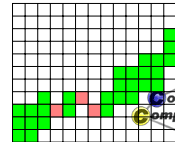
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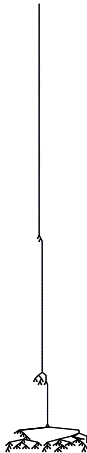
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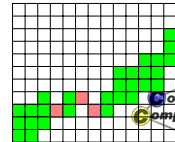
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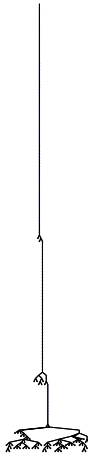
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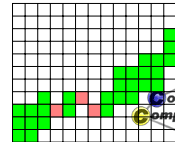
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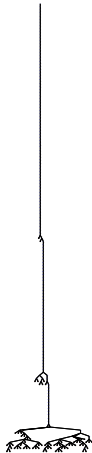
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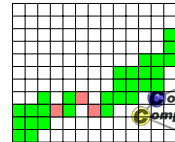
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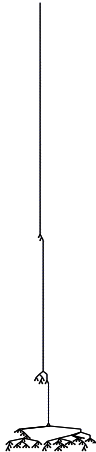
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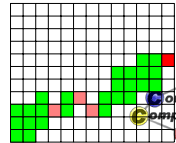
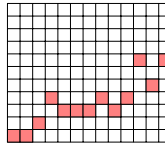
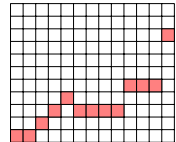
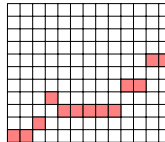
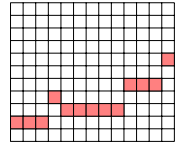
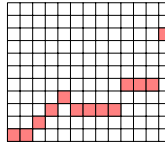
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# Layered Search



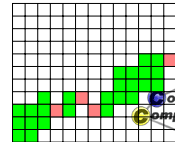
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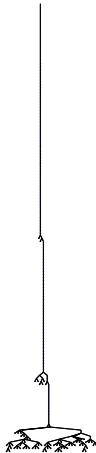
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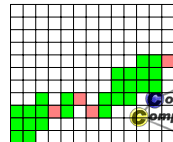
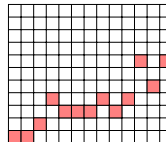
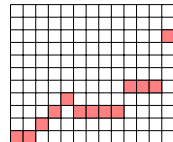
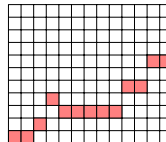
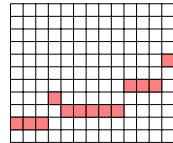
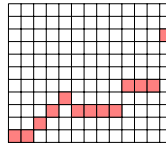
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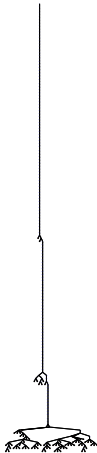


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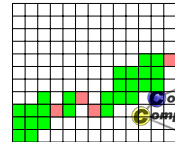




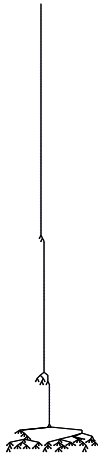
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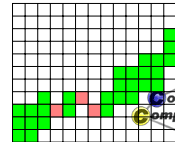
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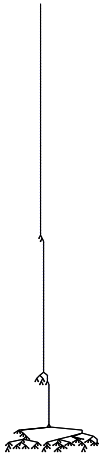
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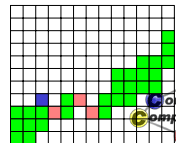
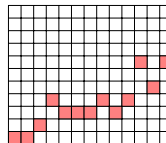
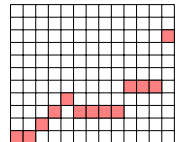
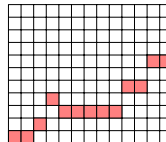
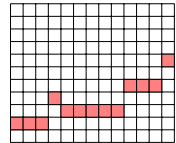
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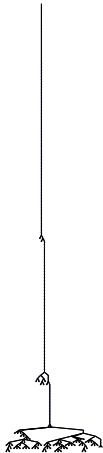
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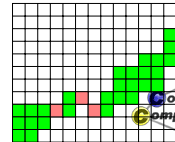
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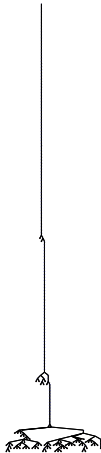
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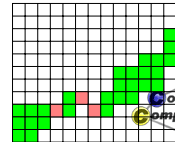
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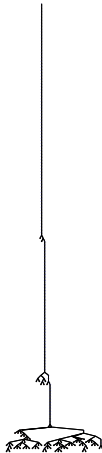
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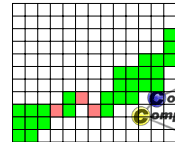
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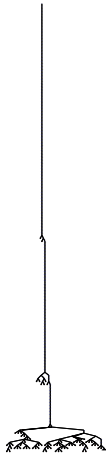
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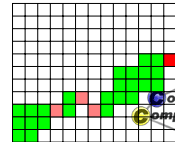
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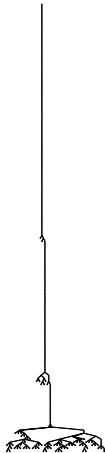
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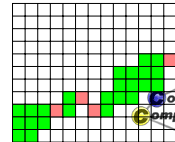
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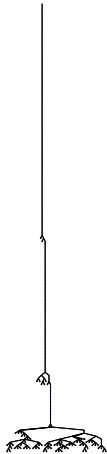


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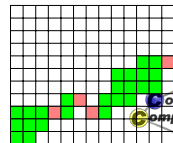
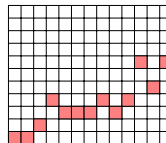
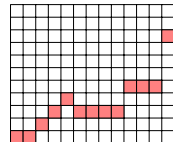
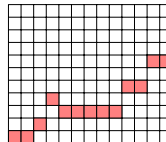
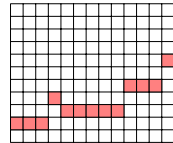




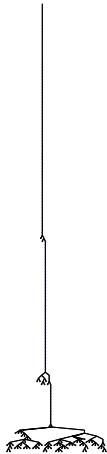
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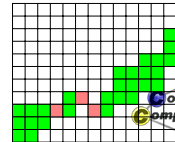
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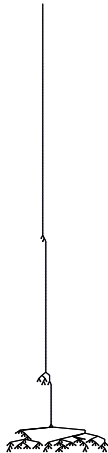
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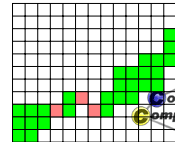
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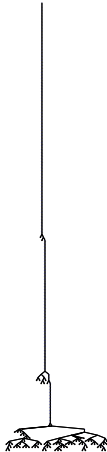
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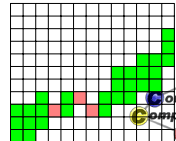
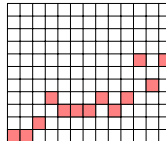
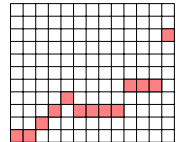
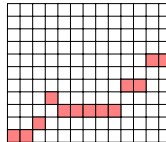
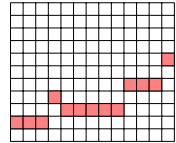
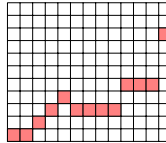
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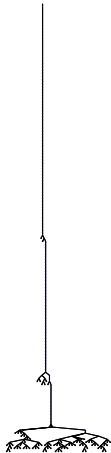
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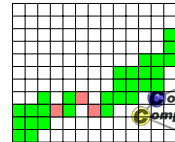
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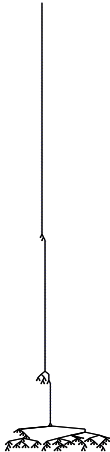
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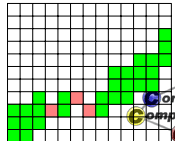
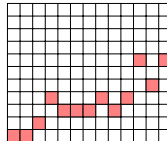
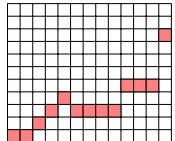
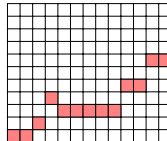
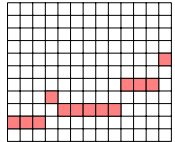
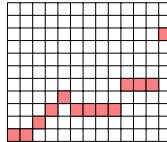
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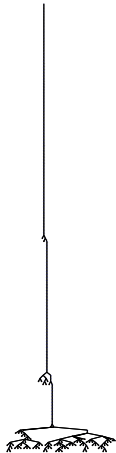
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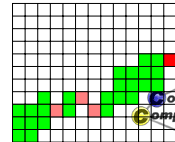
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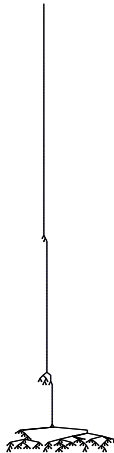
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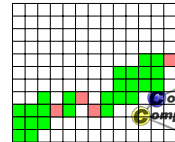
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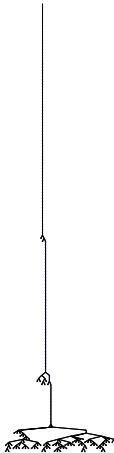


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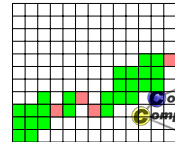




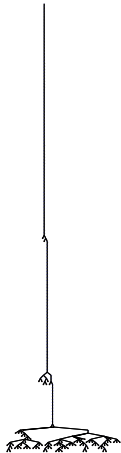
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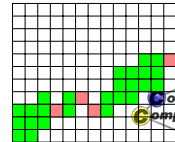
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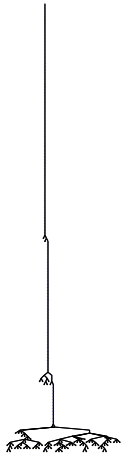
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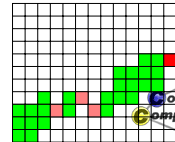
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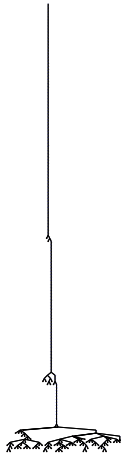
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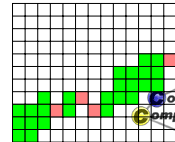
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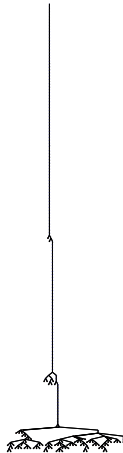
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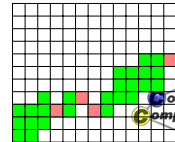
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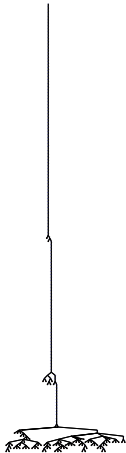
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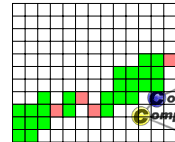
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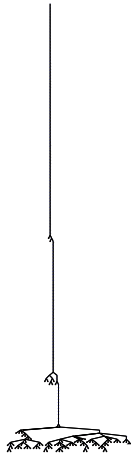
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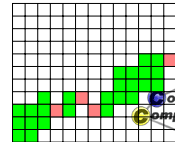
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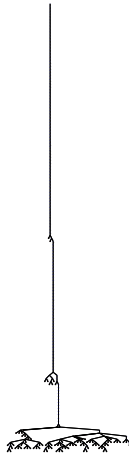
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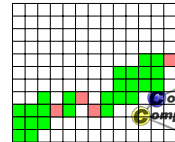
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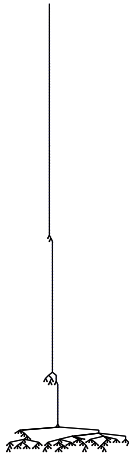


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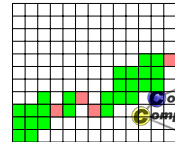




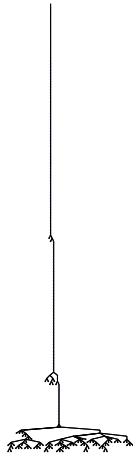
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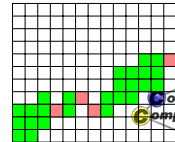
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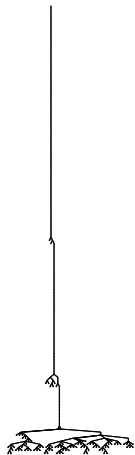
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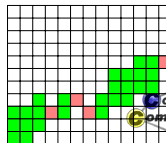
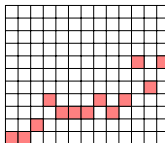
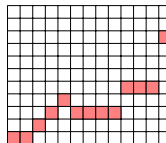
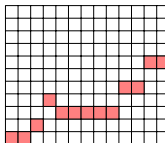
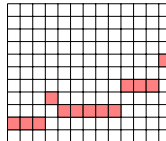
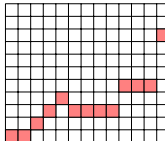
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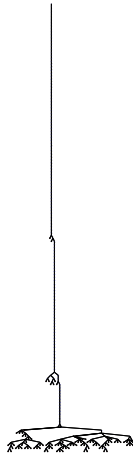
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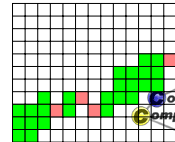
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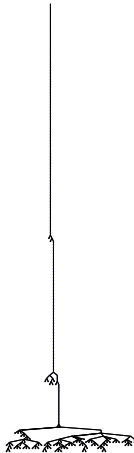
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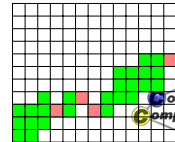
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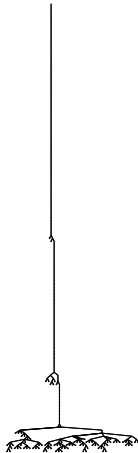
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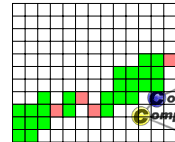
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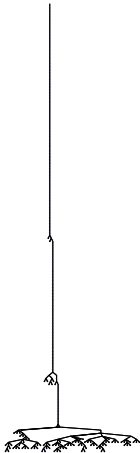
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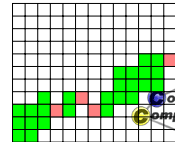
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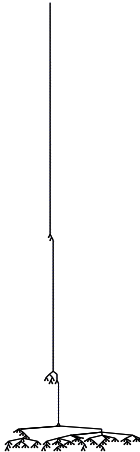
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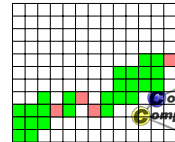
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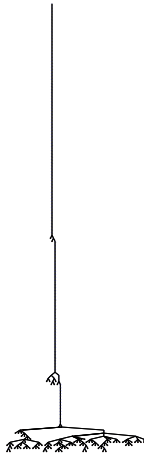


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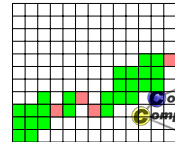




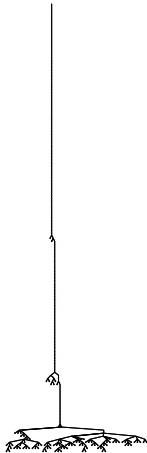
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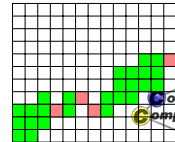
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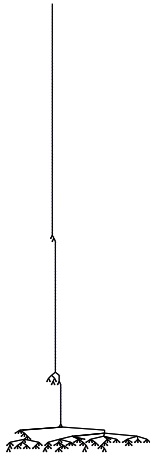
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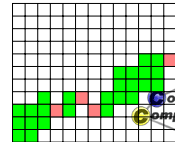
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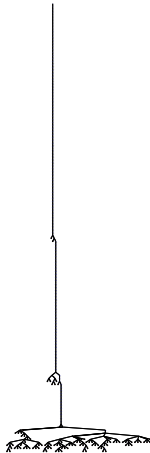
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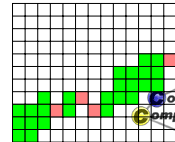
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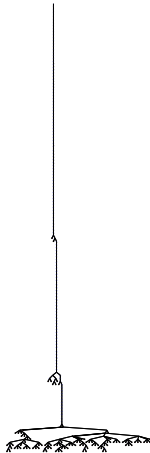
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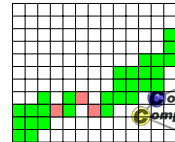
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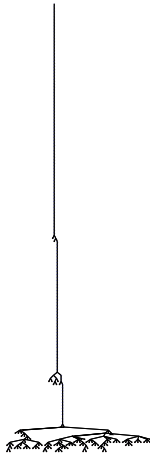
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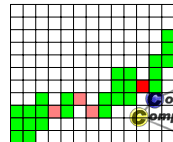
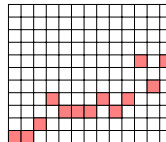
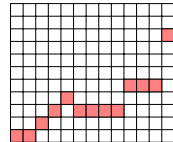
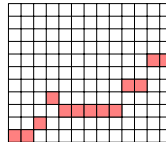
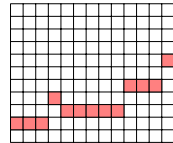
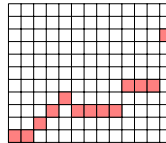
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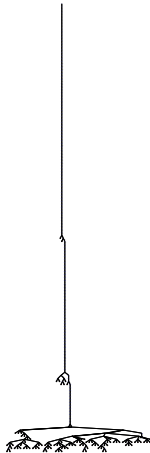
# Layered Search



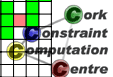
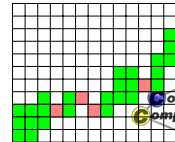
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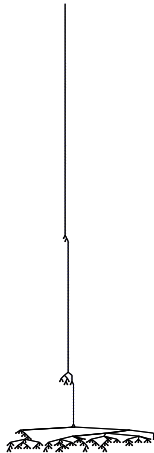
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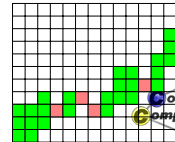
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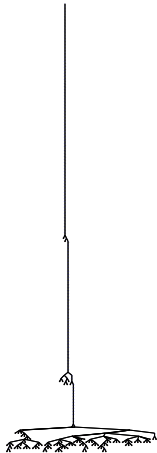


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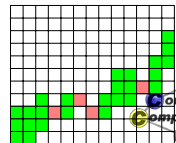
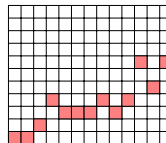
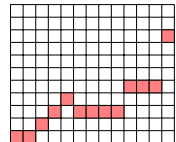
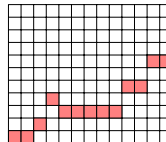
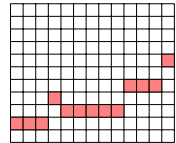




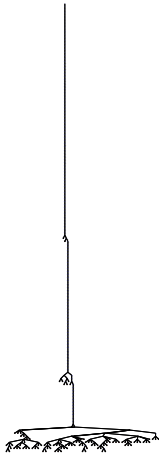
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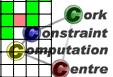
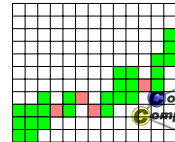
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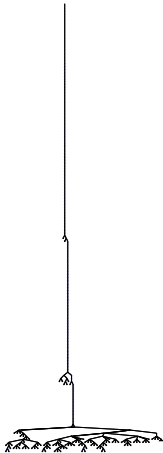
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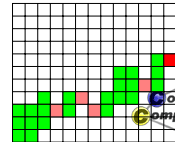
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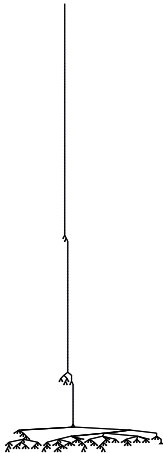
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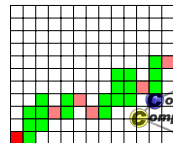
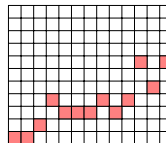
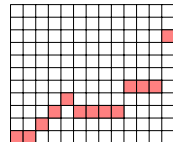
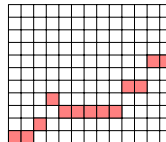
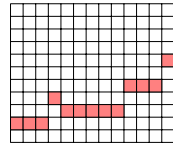
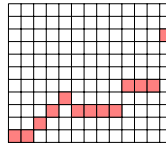
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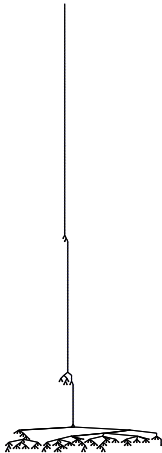


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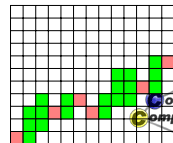
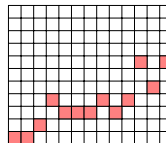
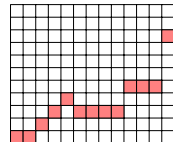
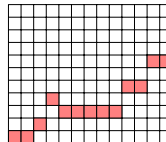
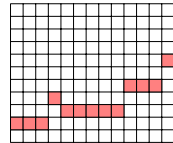
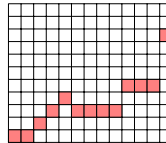


Cork  
Constraint  
Computation  
Centre

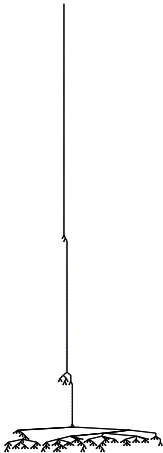
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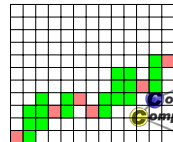
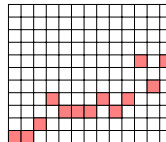
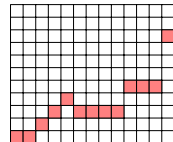
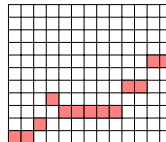
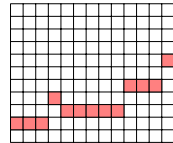
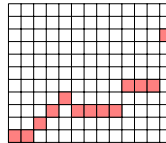
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# Layered Search

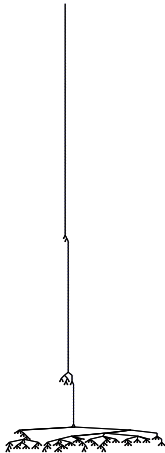


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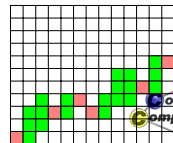
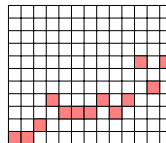
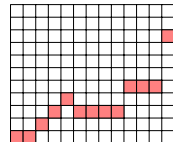
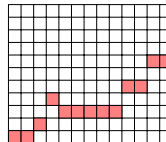
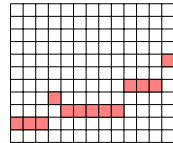
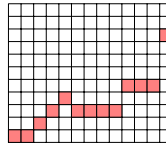


Cork  
Constraint  
Computation  
Centre

# Layered Search

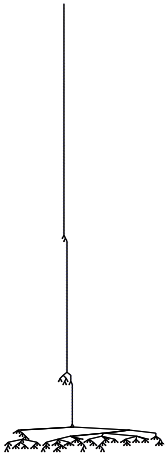


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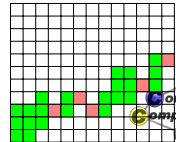
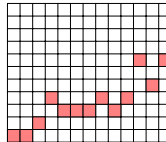
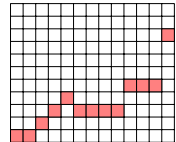
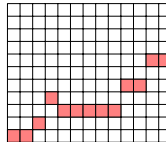
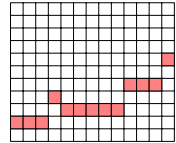
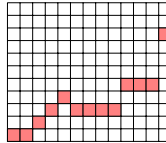


Cork  
Constraint  
Computation  
Centre

# Layered Search



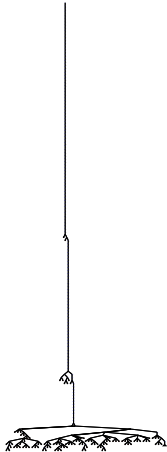
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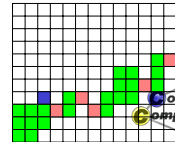
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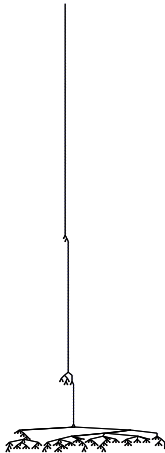
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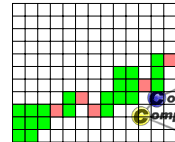
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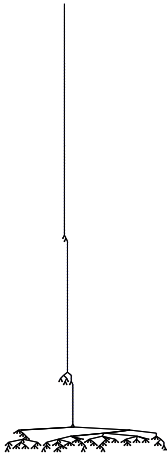
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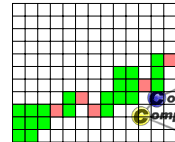
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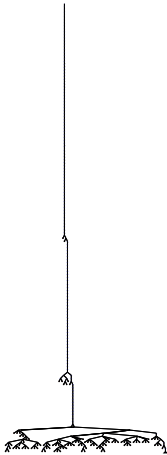
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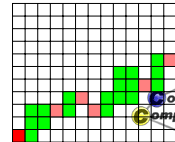
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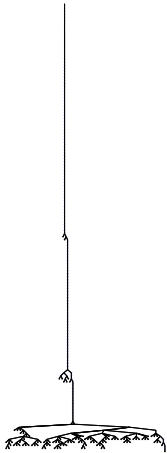
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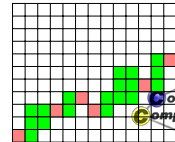
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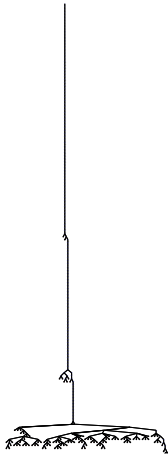
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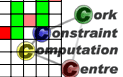
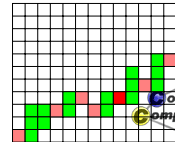
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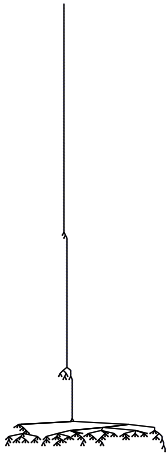
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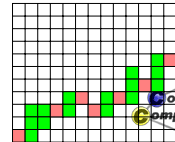
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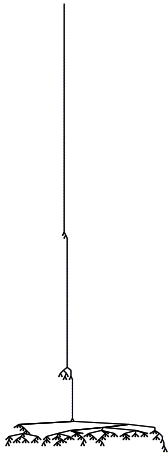
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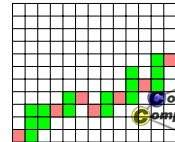
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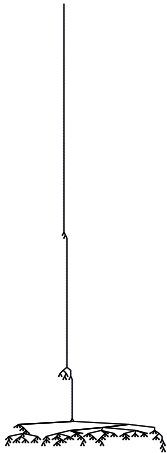


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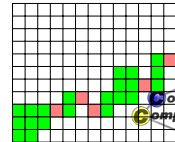




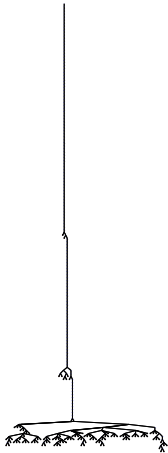
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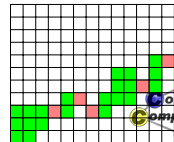
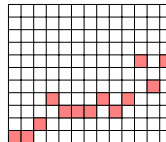
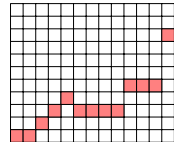
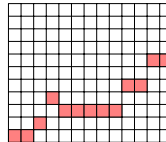
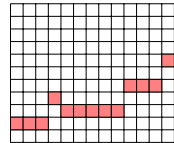
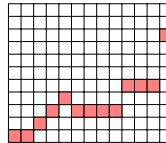
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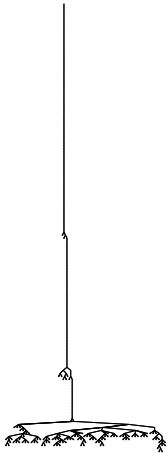
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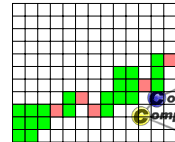
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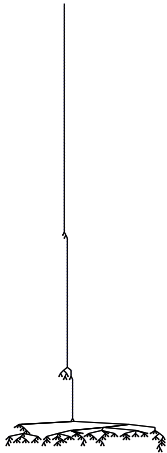
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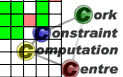
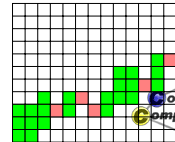
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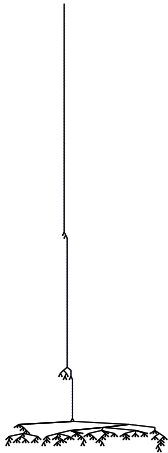
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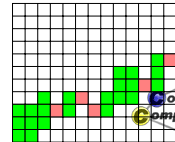
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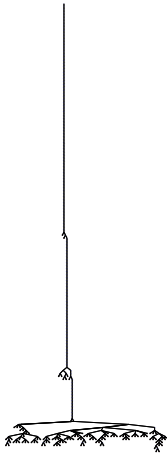
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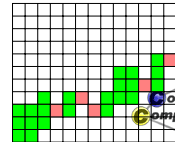
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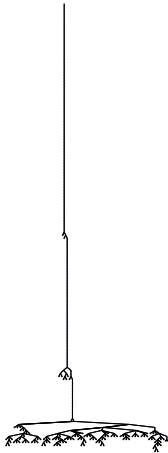
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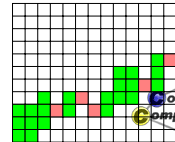
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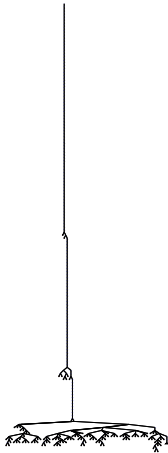
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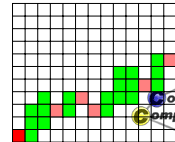
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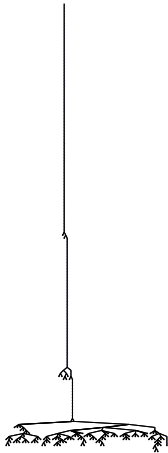


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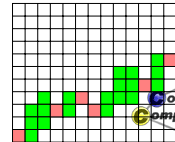




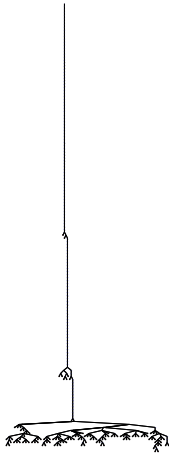
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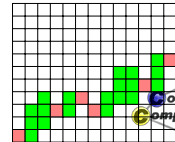
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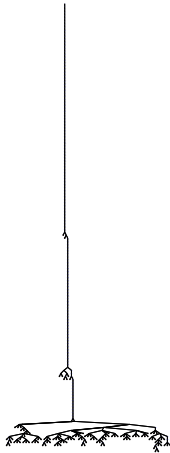
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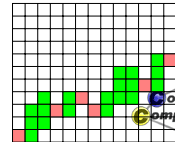
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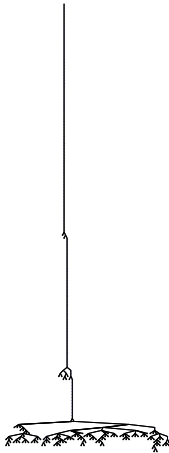
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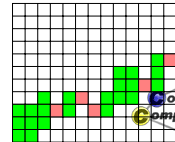
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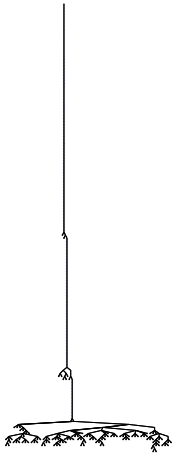
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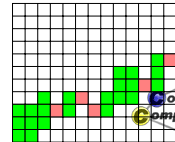
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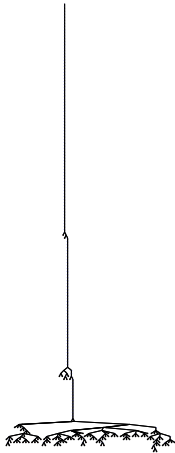
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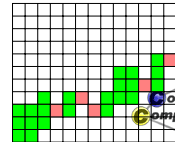
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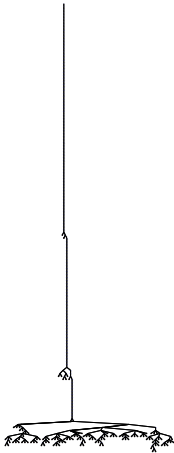
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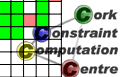
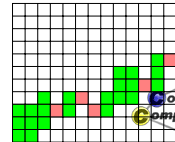
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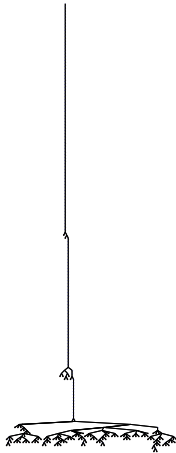
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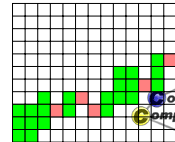
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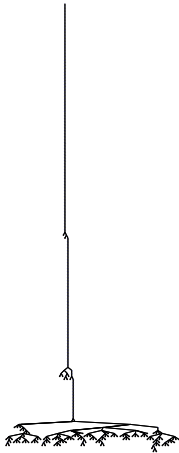


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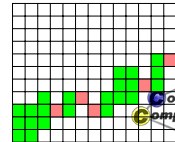




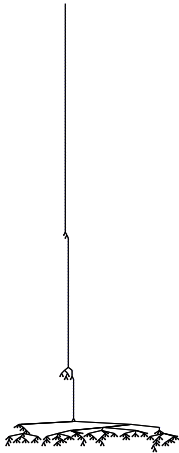
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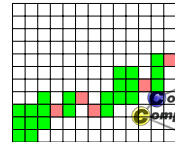
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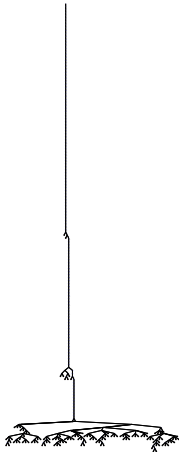
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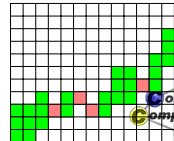
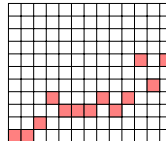
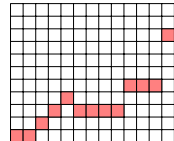
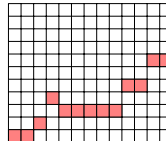
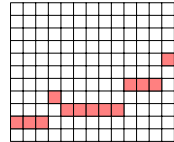
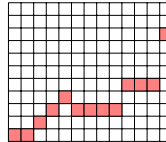
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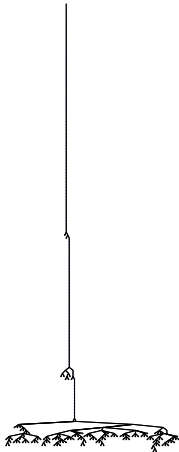
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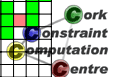
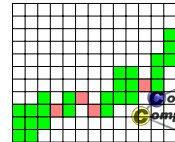
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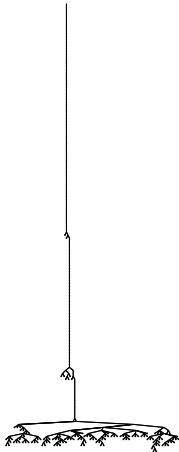
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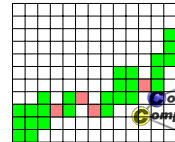
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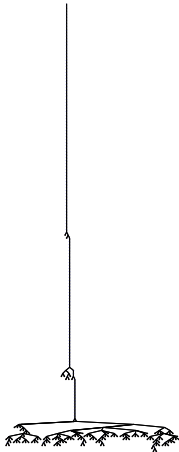
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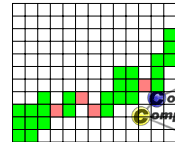
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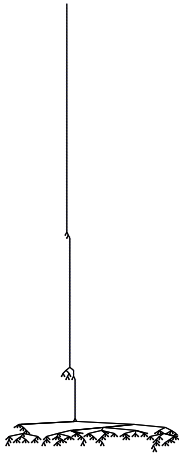
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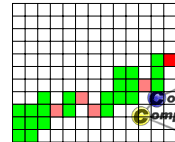
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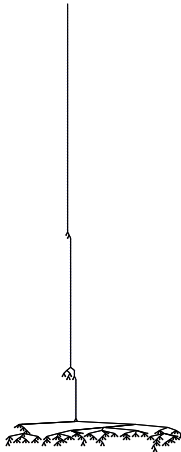
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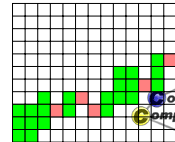
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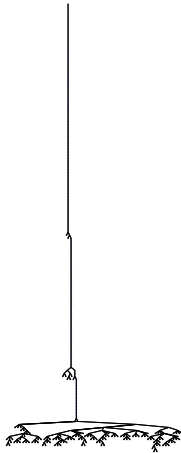


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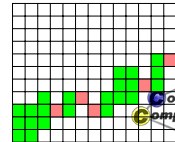




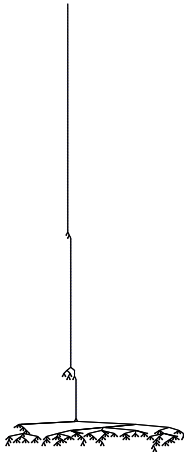
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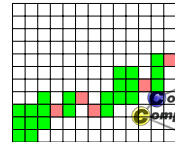
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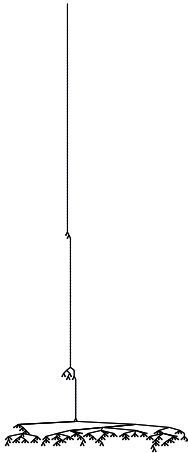
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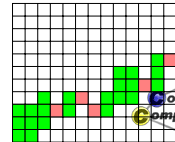
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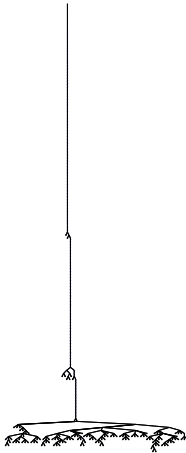
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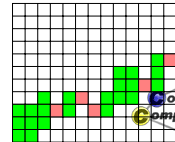
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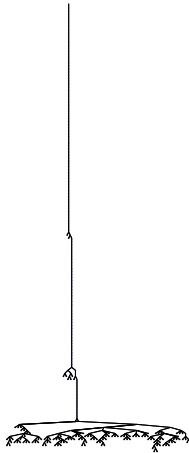
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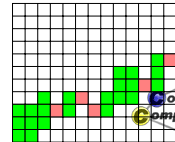
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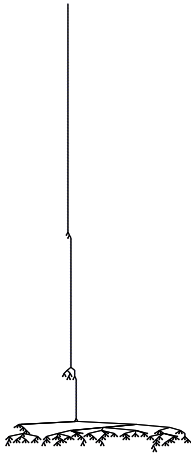
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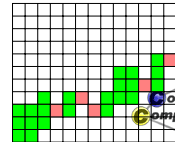
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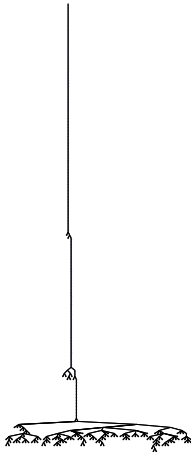
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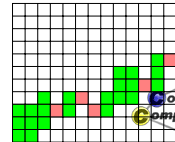
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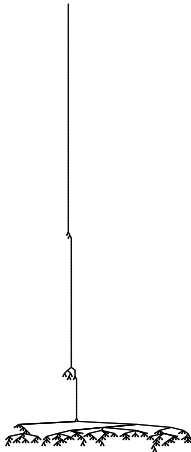
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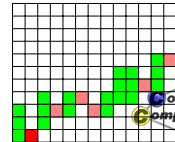
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# Layered Search

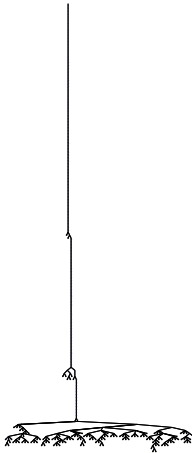


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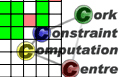
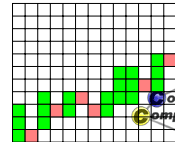




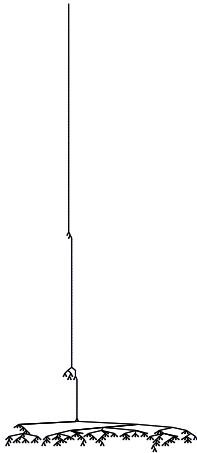
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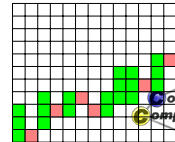
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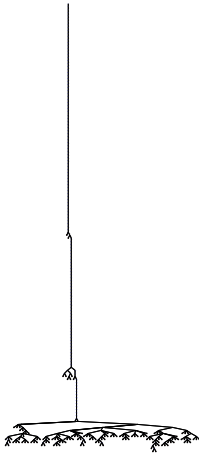
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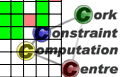
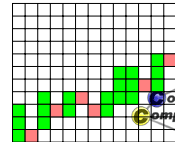
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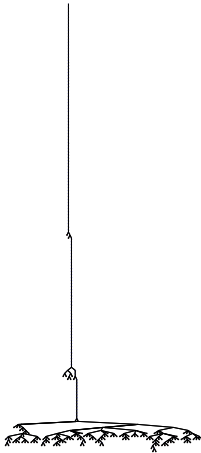
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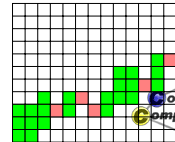
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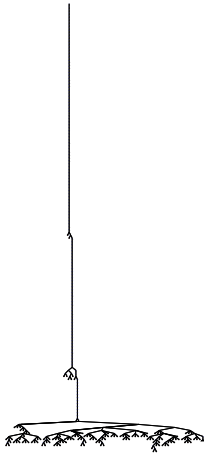
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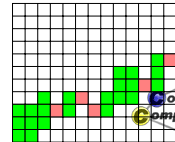
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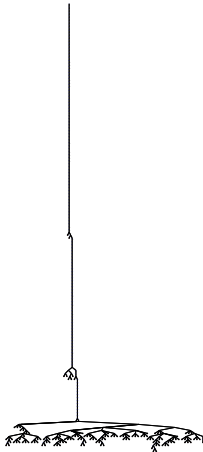
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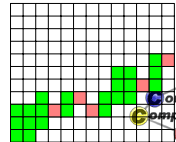
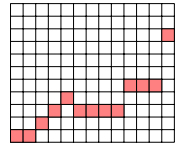
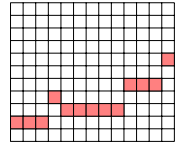
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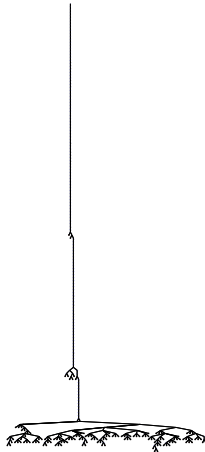
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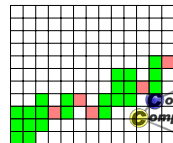
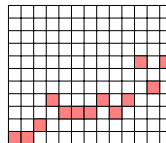
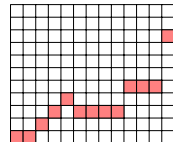
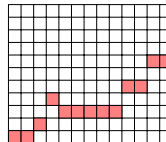
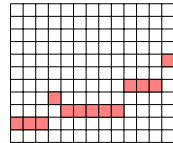
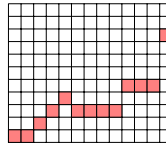
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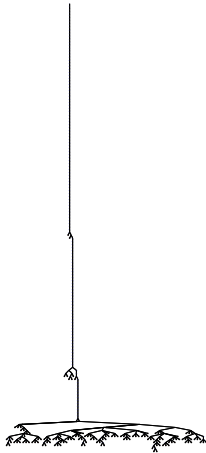
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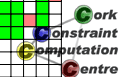
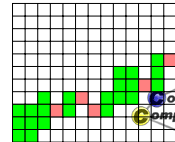
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# Layered Search

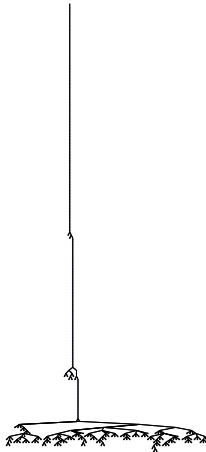


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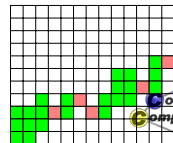
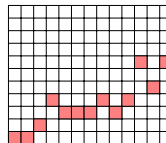
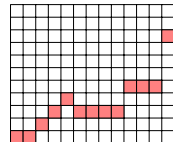
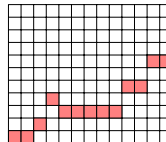
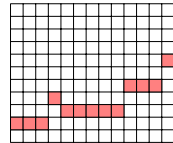




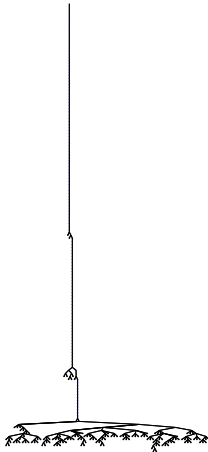
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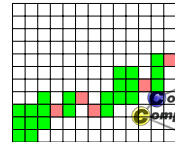
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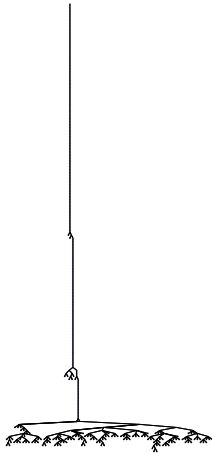
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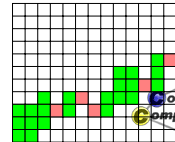
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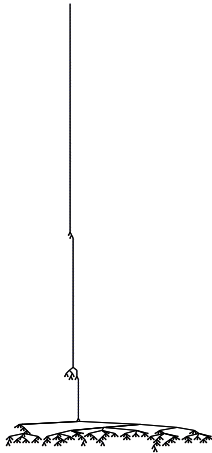
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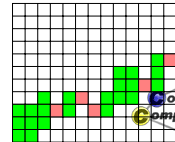
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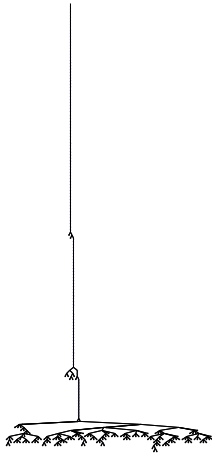


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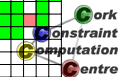
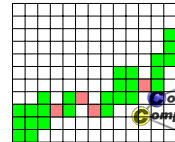


Cork  
Constraint  
Computation  
Centre

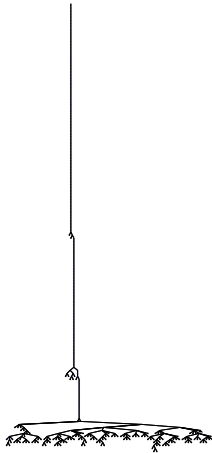
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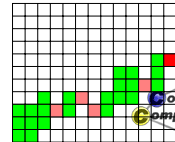
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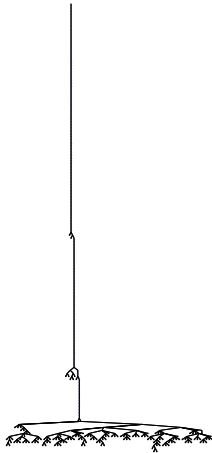
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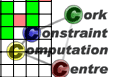
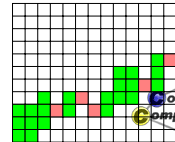
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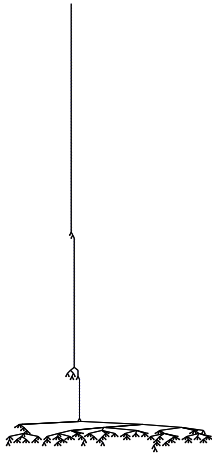
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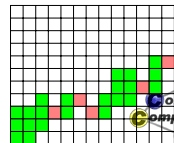
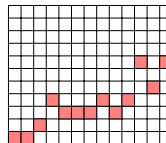
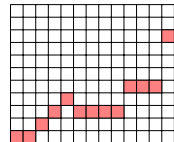
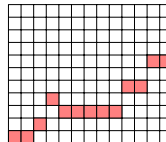
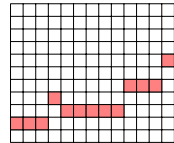
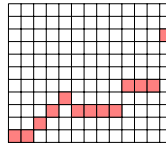
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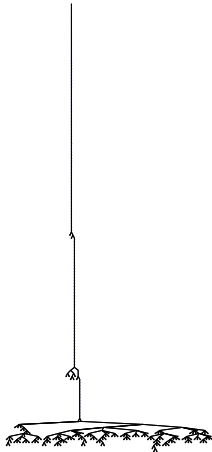


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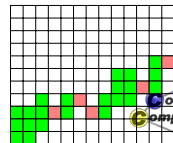
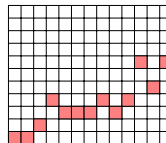
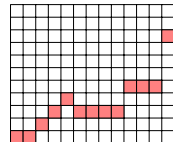
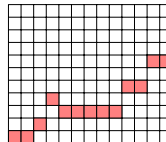
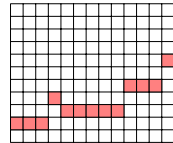




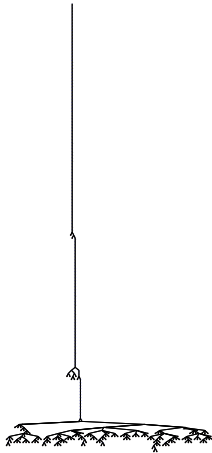
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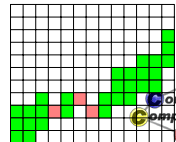
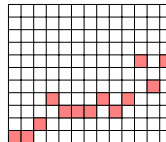
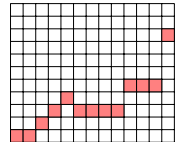
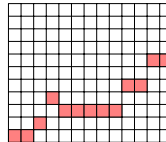
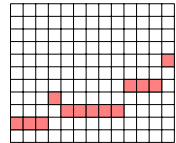
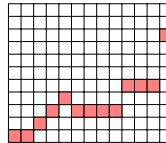
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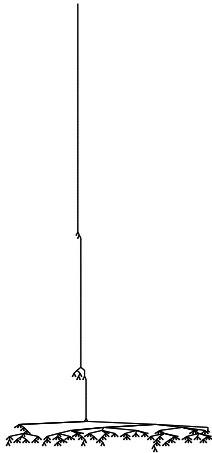
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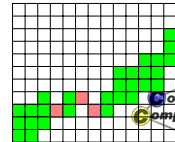
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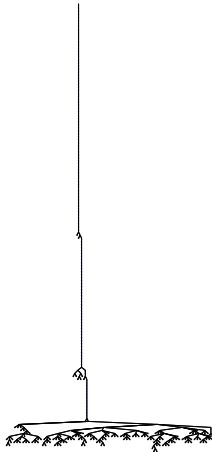
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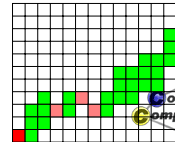
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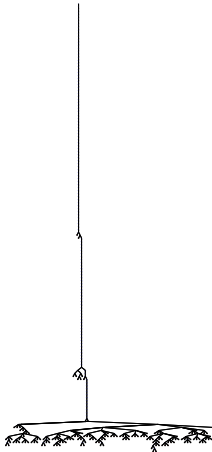
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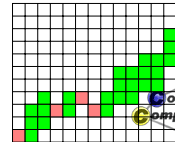
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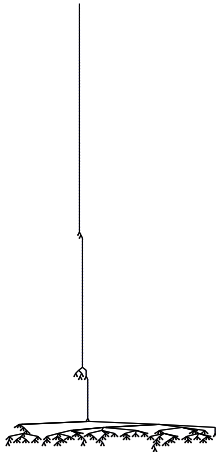
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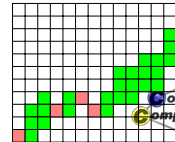
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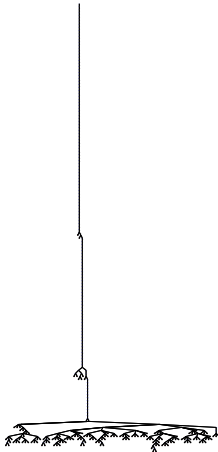
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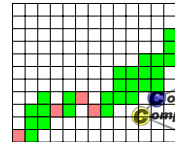
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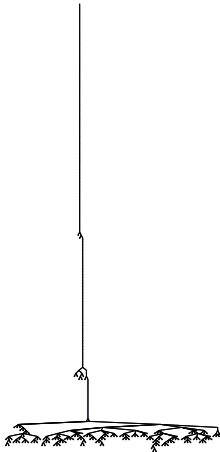
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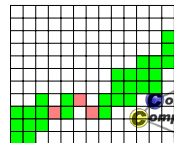
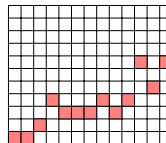
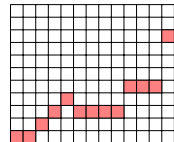
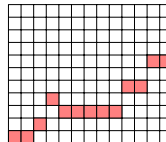
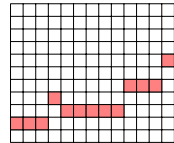
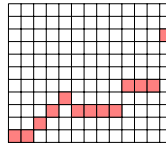
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# Layered Search

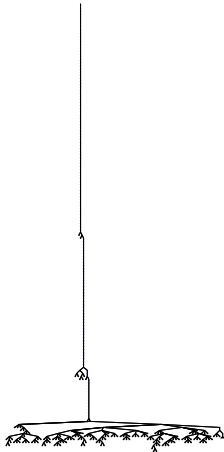


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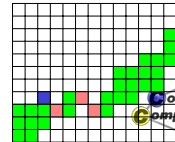




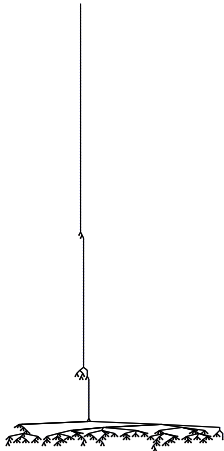
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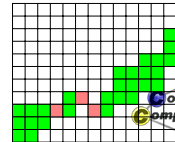
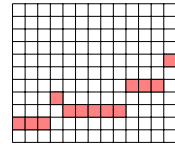
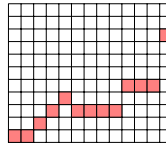
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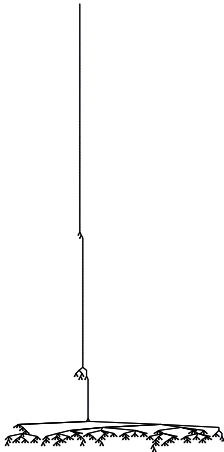
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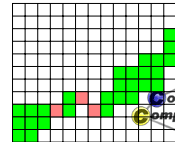
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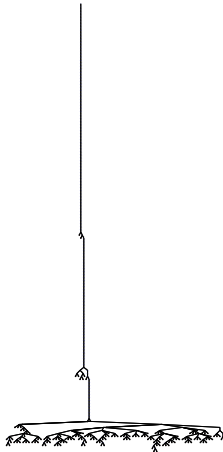
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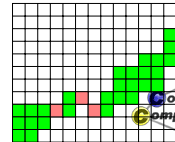
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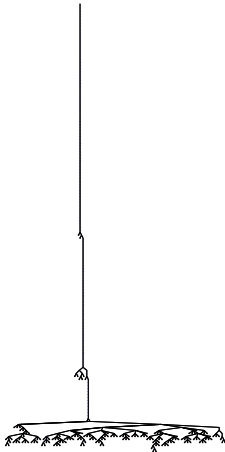
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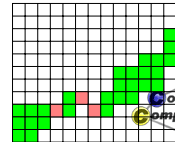
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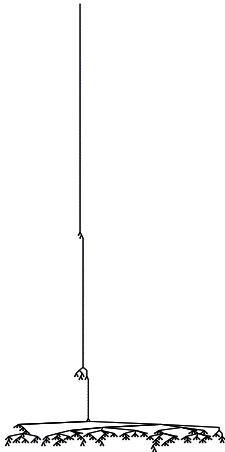
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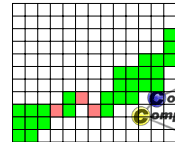
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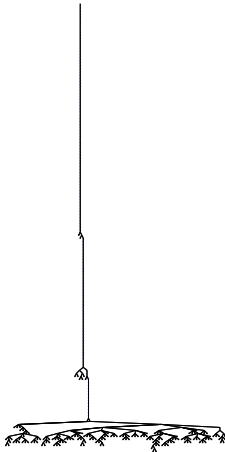
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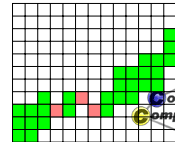
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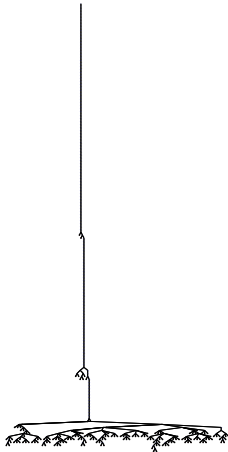
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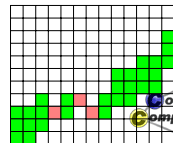
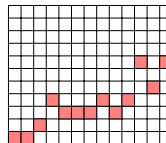
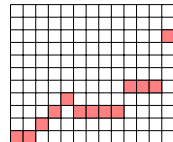
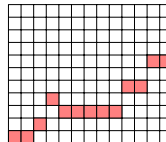
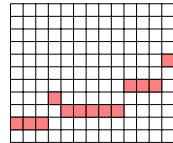
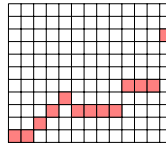
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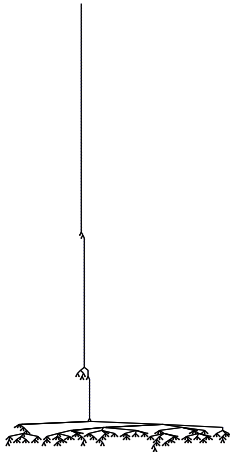


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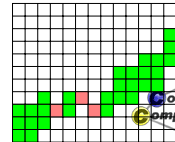




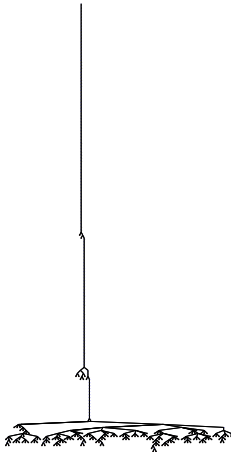
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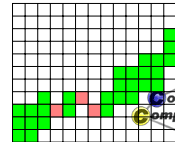
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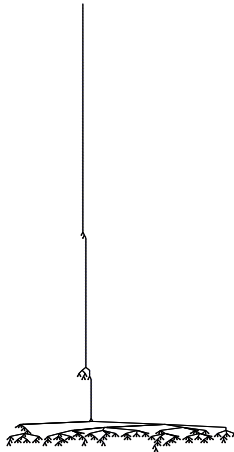
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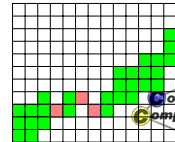
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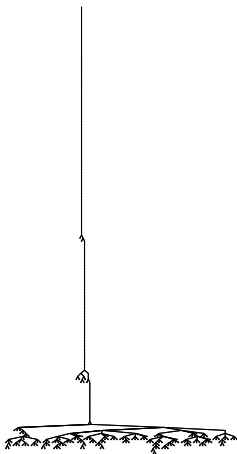
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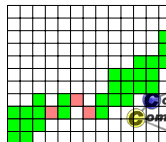
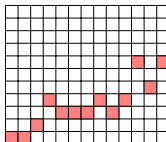
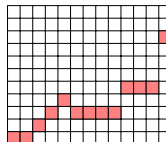
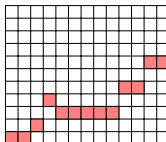
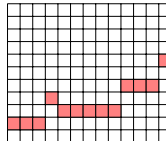
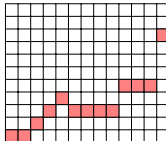
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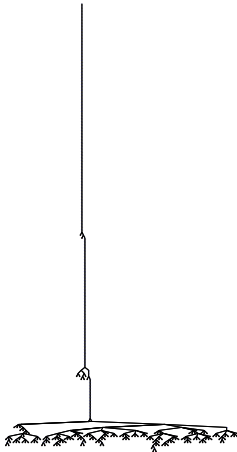
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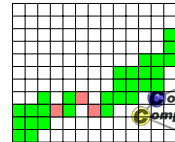
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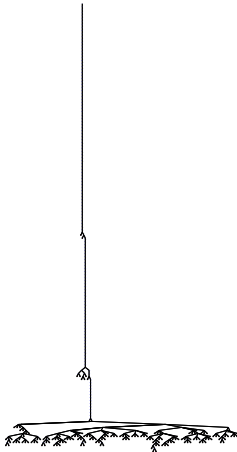
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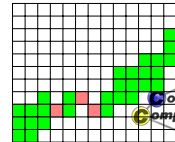
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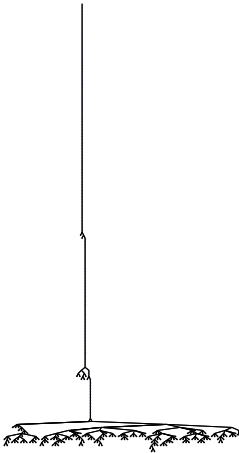
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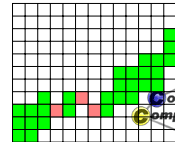
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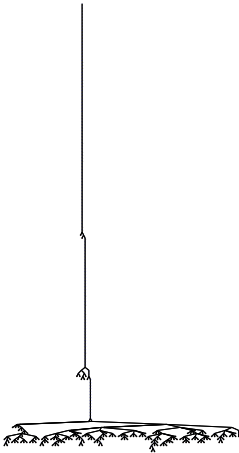
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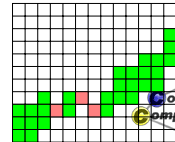
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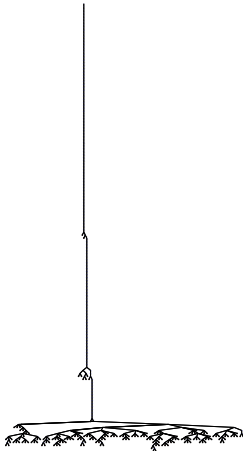


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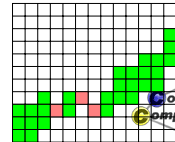
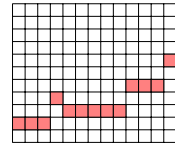
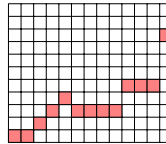




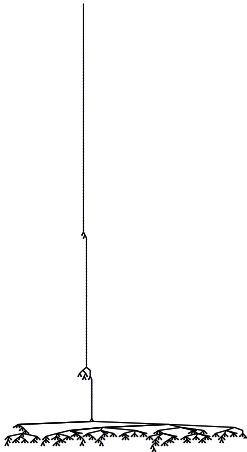
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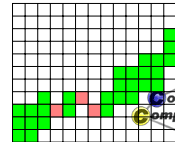
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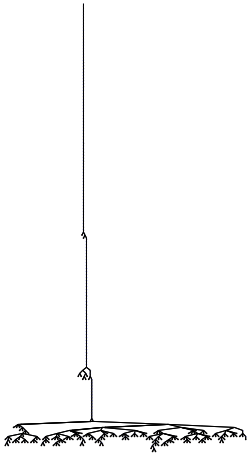
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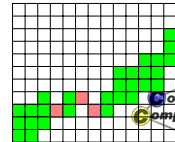
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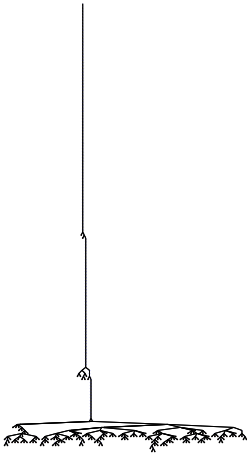
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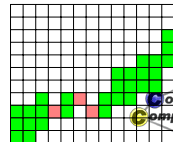
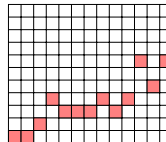
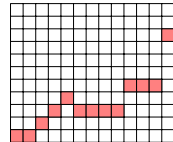
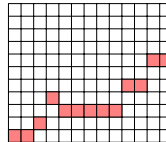
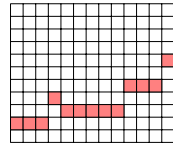
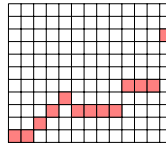
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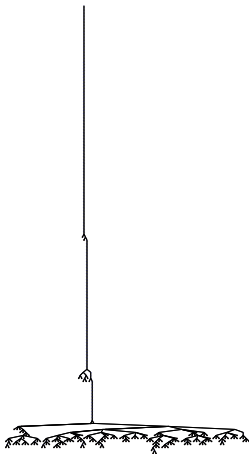
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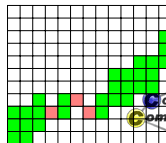
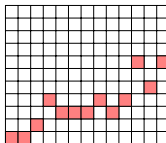
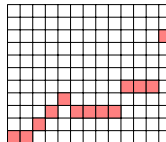
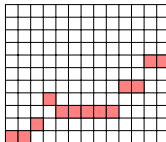
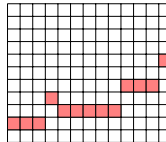
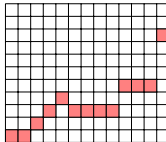
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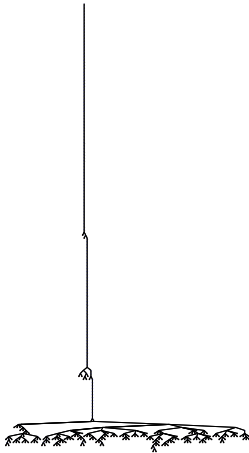
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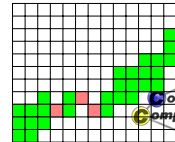
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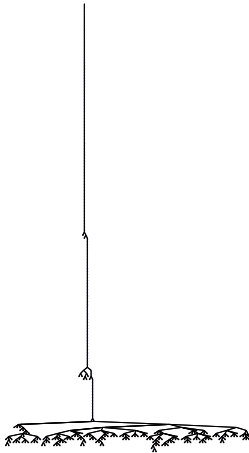
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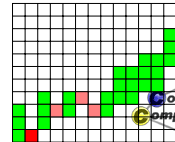
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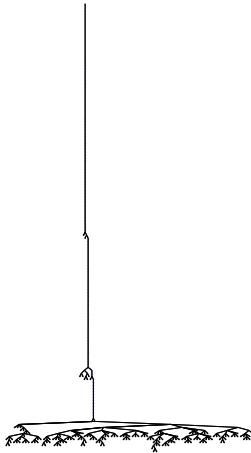
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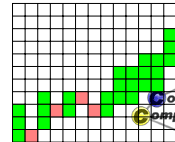
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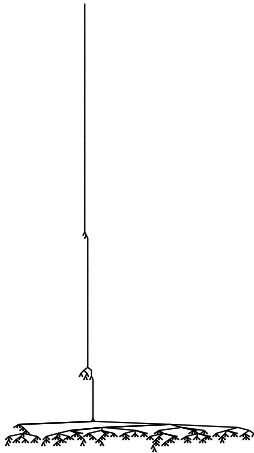


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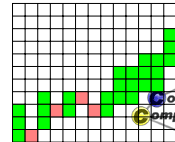




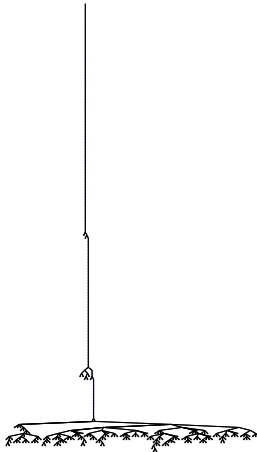
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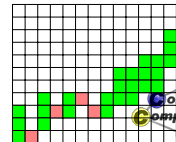
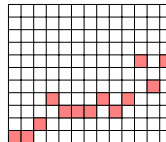
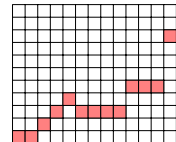
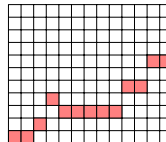
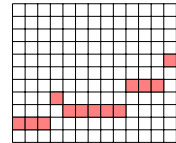
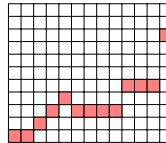
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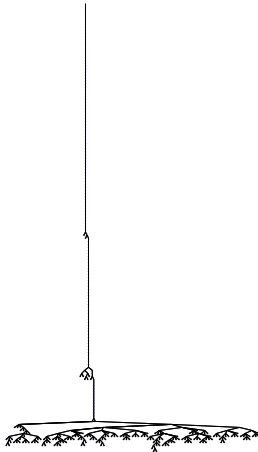
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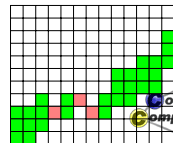
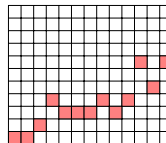
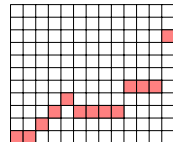
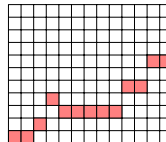
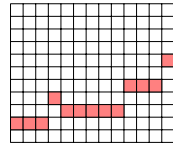
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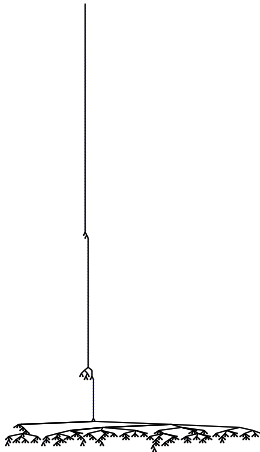
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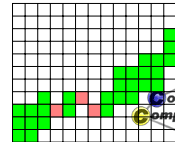
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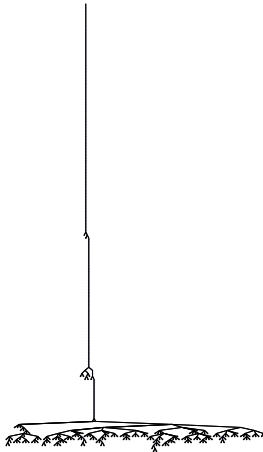
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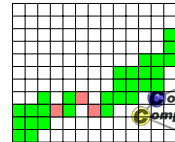
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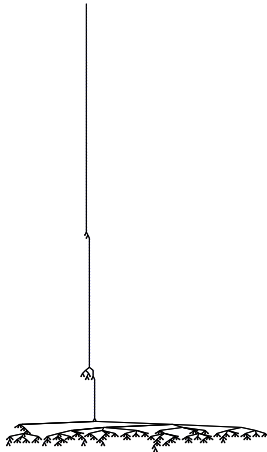
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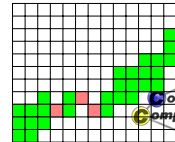
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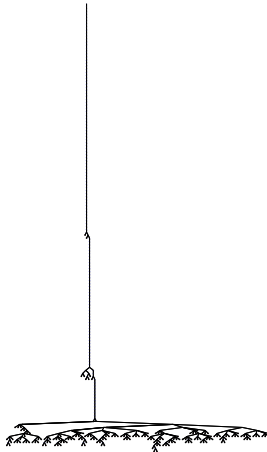
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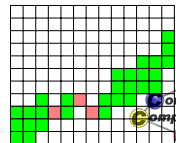
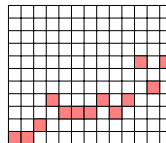
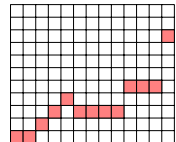
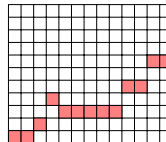
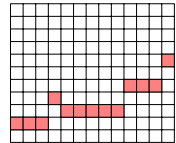
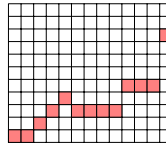
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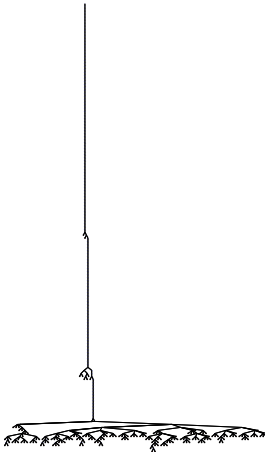
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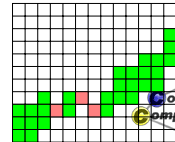
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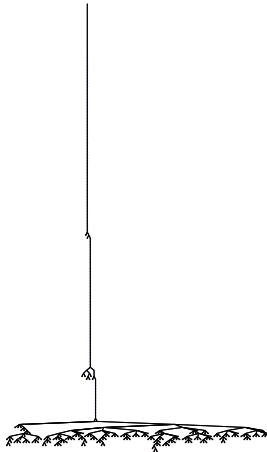


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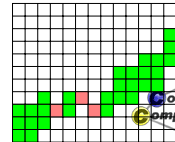




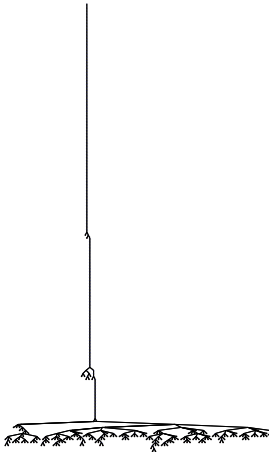
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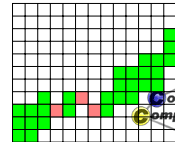
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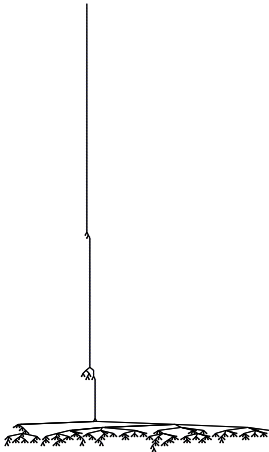
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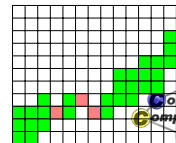
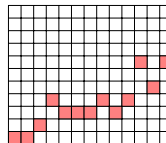
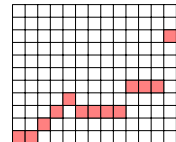
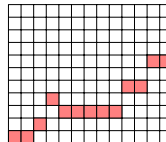
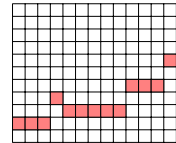
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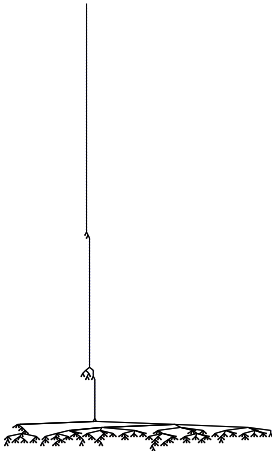
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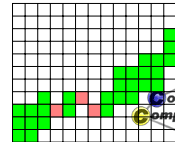
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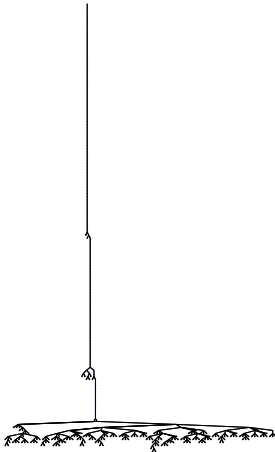
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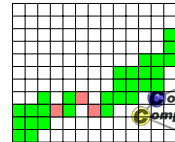
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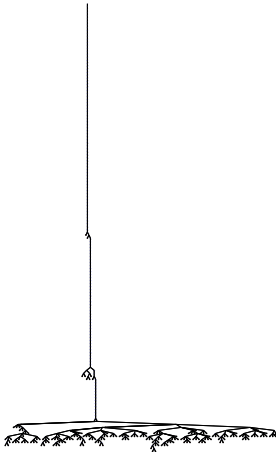
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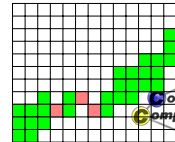
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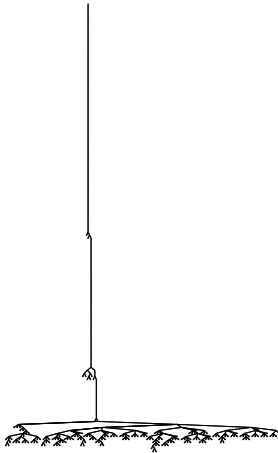
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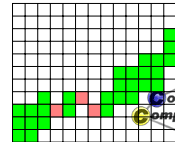
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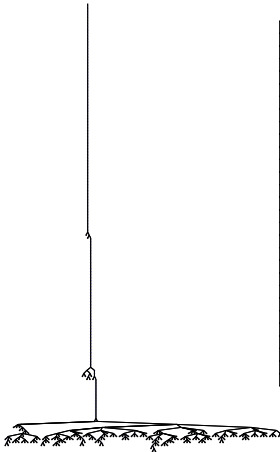
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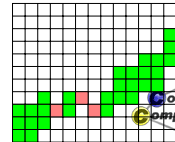
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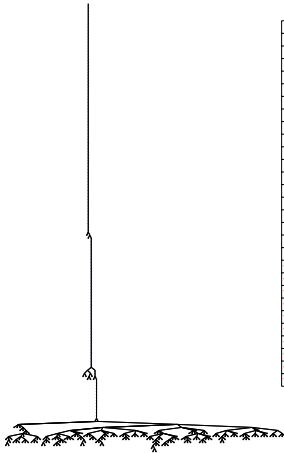


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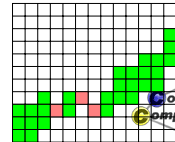




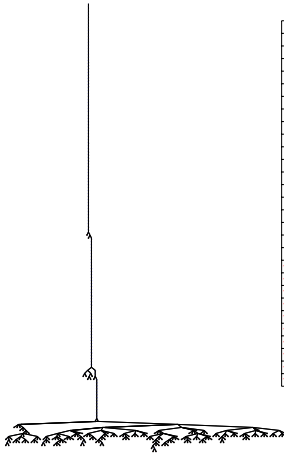
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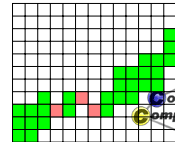
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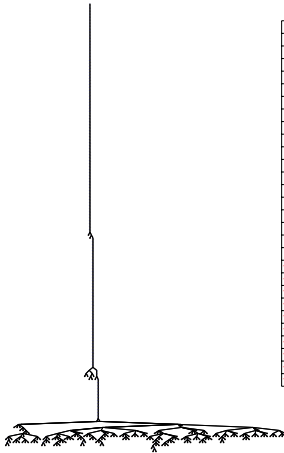
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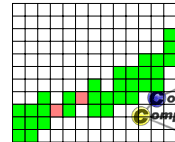
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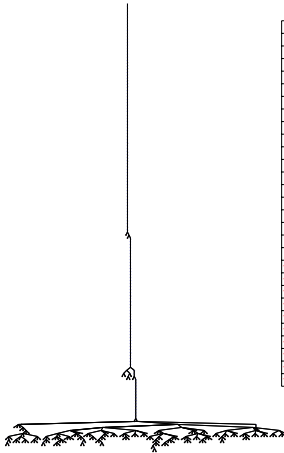
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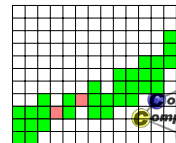
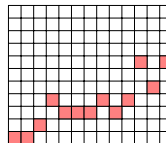
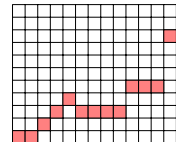
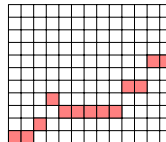
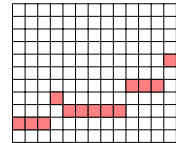
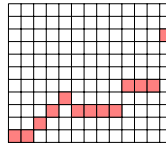
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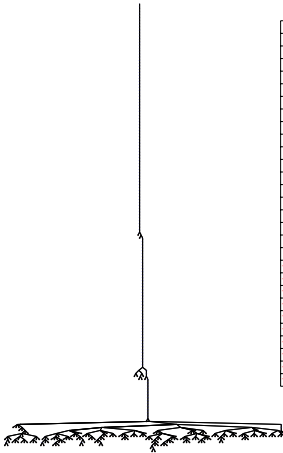
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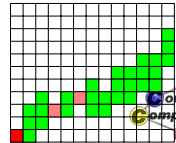
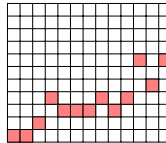
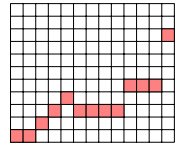
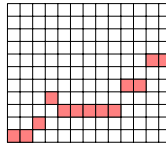
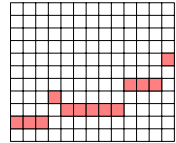
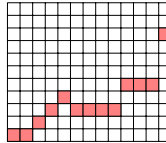
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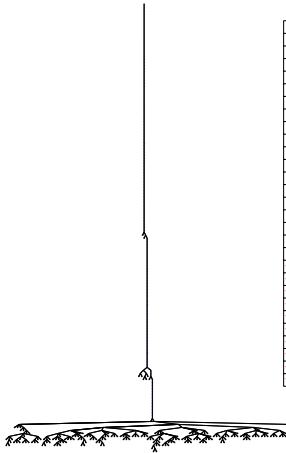
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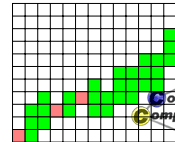
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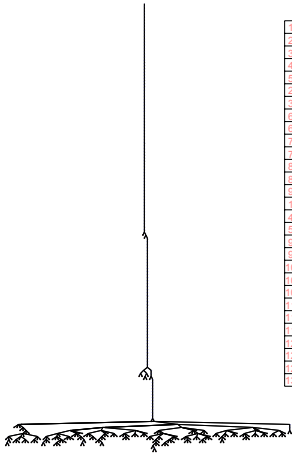
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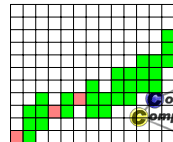
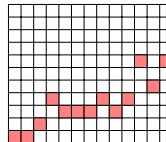
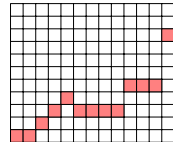
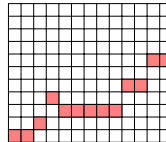
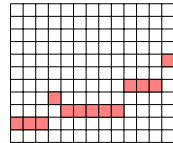
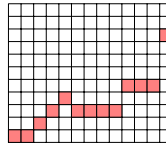
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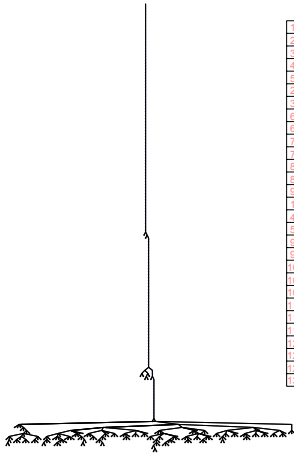
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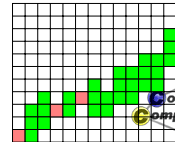
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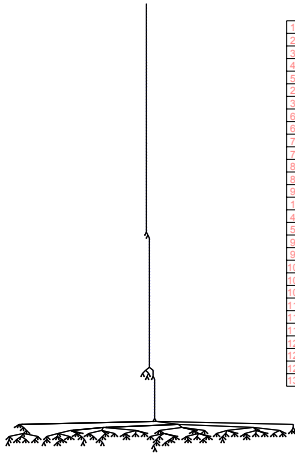


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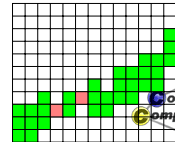




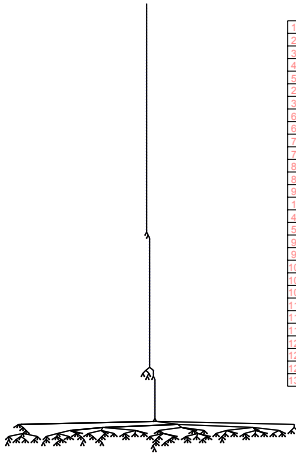
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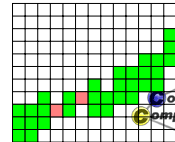
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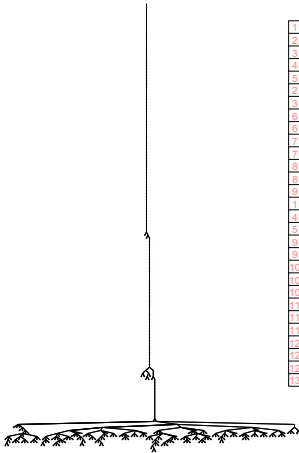
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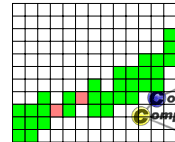
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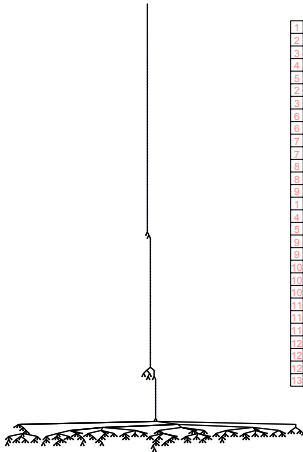
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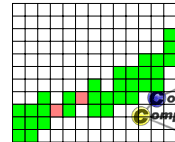
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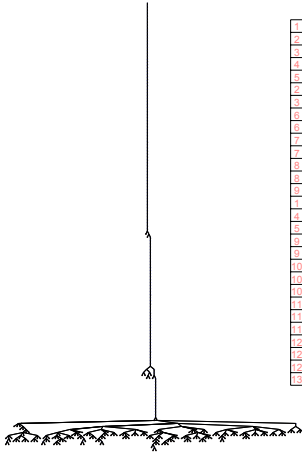
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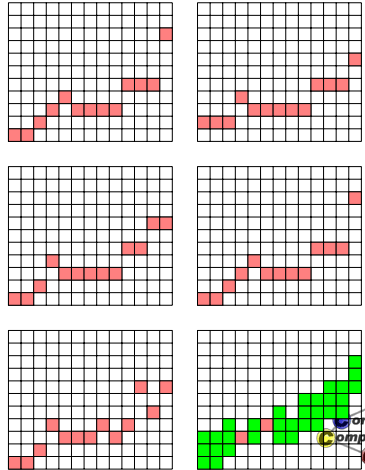
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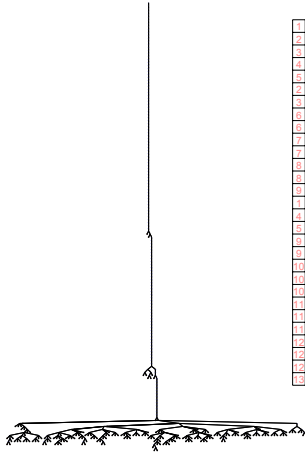
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9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	13
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11	10	13	6	12	1
11	12	10	7	6	2
11	13	12	9	10	2
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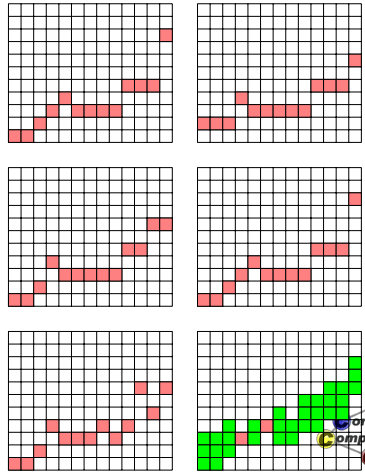
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



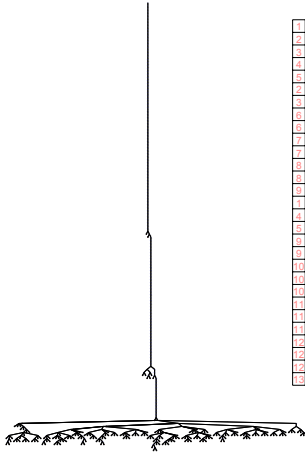
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8	6	7	3	10	2
8	7	9	8	1	10
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
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11	12	10	7	6	2
11	13	12	9	10	2
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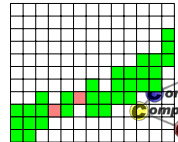
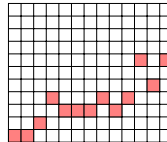
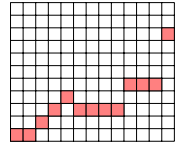
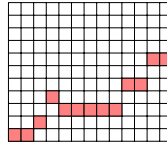
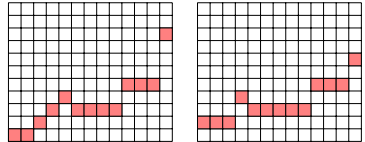
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered Search



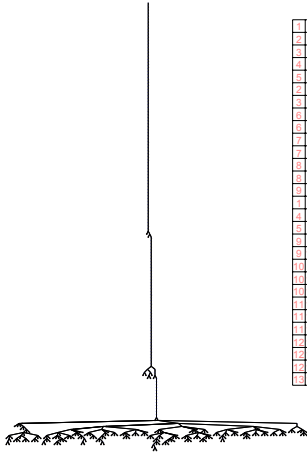
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11	12	10	7	6	2
11	13	12	9	10	2
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13	11	10	9	12	2



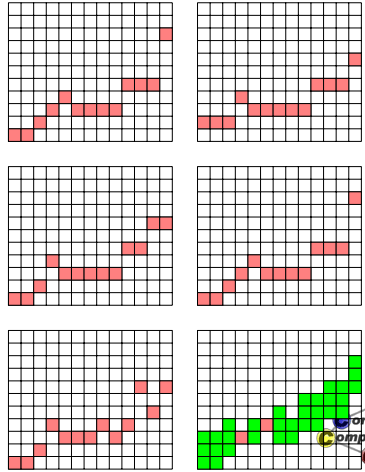
◀ Back to Start   ▶ Skip Animation



# Layered Search



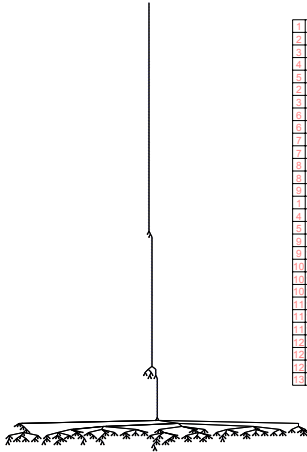
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6	5	7	8	9	12
6	7	5	12	3	1
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	2
8	7	9	8	1	—
9	8	1	18	2	3
1	3	10	10	7	—
4	2	8	16	6	—
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11	13	12	9	10	—
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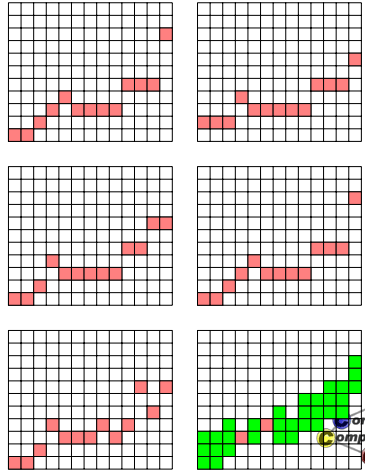
◀ Back to Start    ▶ Skip Animation



# Layered Search

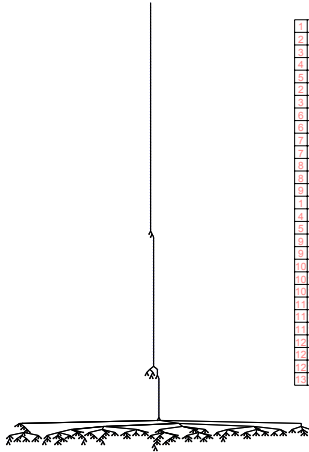


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11	12	10	7	6	—
11	13	12	9	10	—
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13	11	10	9	12	—

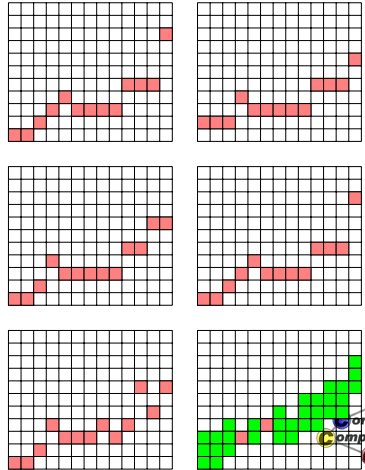


◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
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3	9	6	1	2	4
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11	12	10	7	6	2
11	13	12	9	10	1
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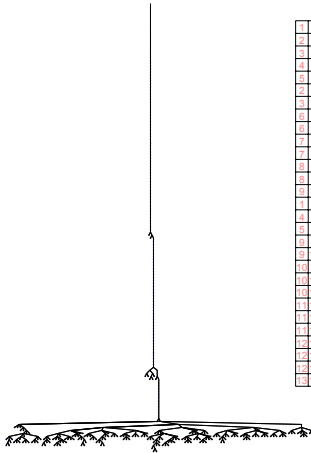


Cork  
Constraint  
Computation  
Centre

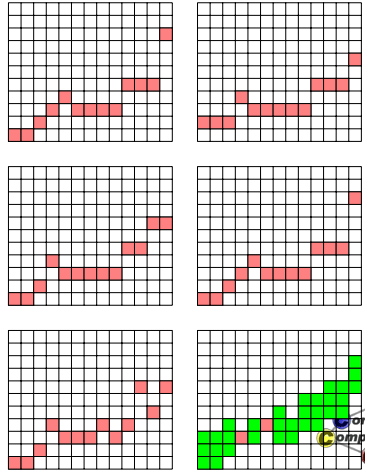
◀ Back to Start   ▶ Skip Animation



# Layered Search



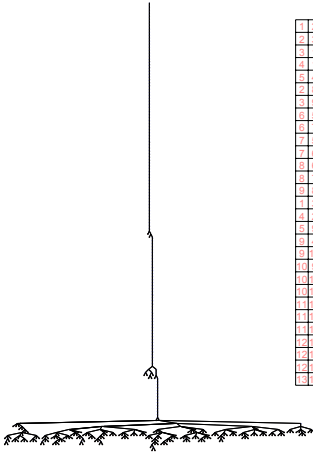
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8	6	7	3	10	11
8	7	9	8	1	10
9	8	1	12	2	3
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11	12	10	7	6	2
11	13	12	9	10	2
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13	11	10	9	12	2



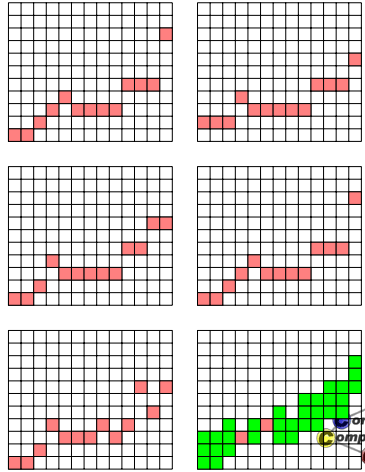
◀ Back to Start   ▶ Skip Animation



# Layered Search



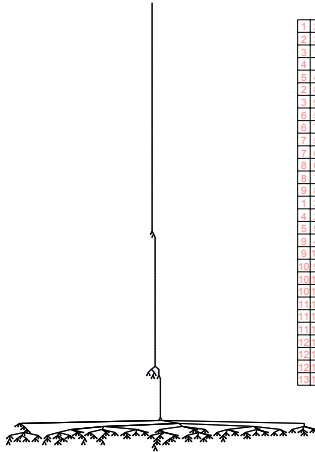
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9	8	1	18	2	3
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4	2	8	16	6	2
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10	9	11	8	12	13
10	11	12	7	4	2
10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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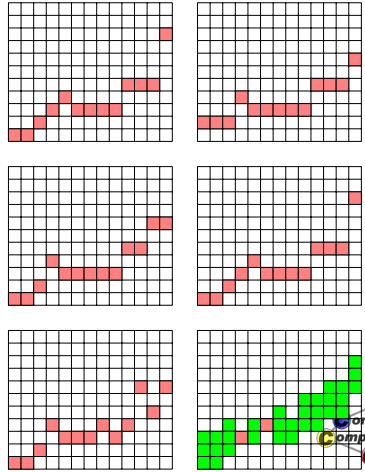
Cork  
Constraint  
Computation  
Centre

◀ Back to Start    ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
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11	12	10	7	6	—
11	13	12	9	10	—
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13	11	10	9	12	—

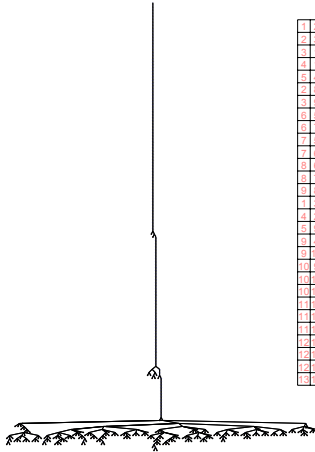


Cork  
Constraint  
Computation  
Centre

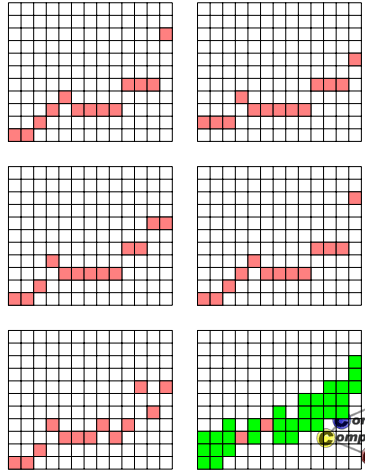
◀ Back to Start   ▶ Skip Animation



# Layered Search



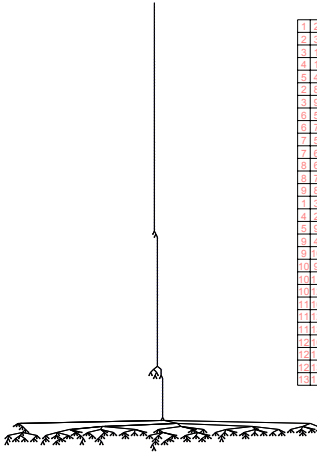
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11	12	10	7	6	1
11	13	12	9	10	1
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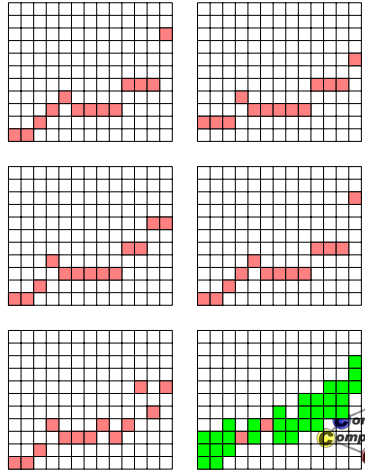
Cork  
Constraint  
Computation  
Centre

◀ Back to Start    ▶ Skip Animation

# Layered Search



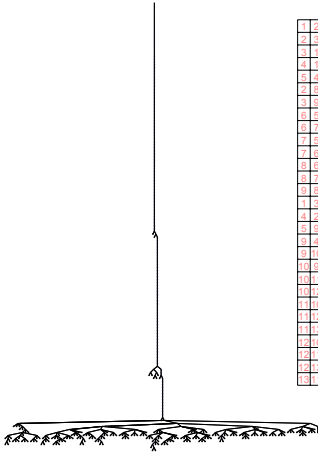
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9	8	1	18	2	3
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11	12	10	7	6	1
11	13	12	9	10	1
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12	13	11	6	8	1
13	11	10	9	12	1



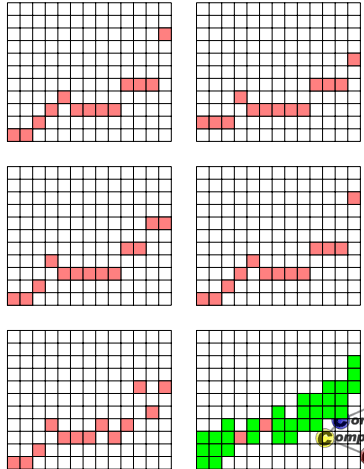
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered Search



1	2	3	4	5	6
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3	1	4	2	6	5
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5	4	2	1	9	8
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9	8	1	18	2	3
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4	2	8	16	6	—
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11	13	12	9	10	—
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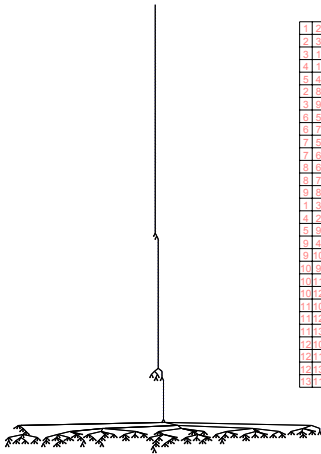


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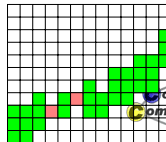
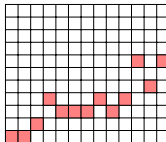
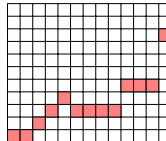
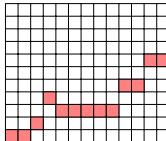
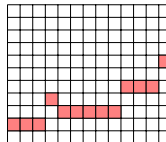
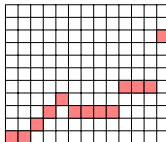
Cork  
Constraint  
Computation  
Centre



# Layered Search



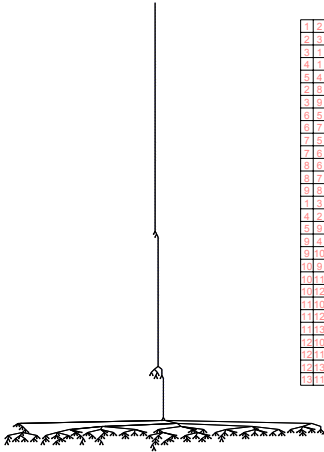
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9	4	3	7	11	10
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11	12	10	7	6	—
11	13	12	9	10	—
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12	13	11	6	8	—
13	11	10	9	12	—



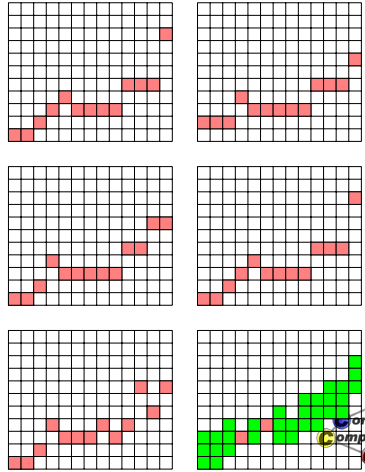
◀ Back to Start    ▶ Skip Animation



# Layered Search



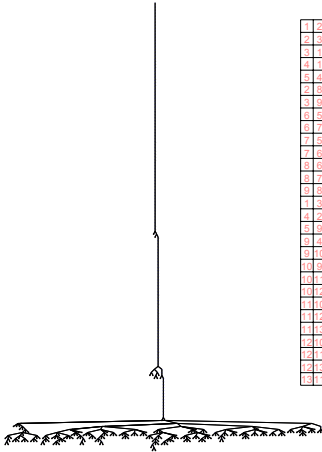
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2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	2
7	5	6	13	8	—
7	6	8	2	9	—
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8	7	9	8	1	—
9	8	1	12	2	3
1	3	10	10	7	—
4	2	8	13	6	—
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	—
10	9	11	8	12	13
10	11	12	7	4	—
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11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	—
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12	13	11	6	8	—
13	11	10	9	12	—



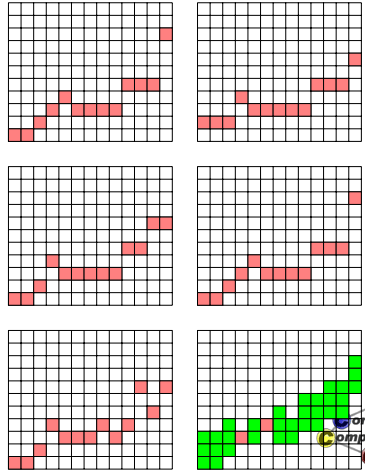
◀ Back to Start   ▶ Skip Animation

Cork
   
 Constraint
   
 Computation
   
 Centre

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	2
7	5	6	13	8	7
7	6	8	2	9	3
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11	13	12	9	10	1
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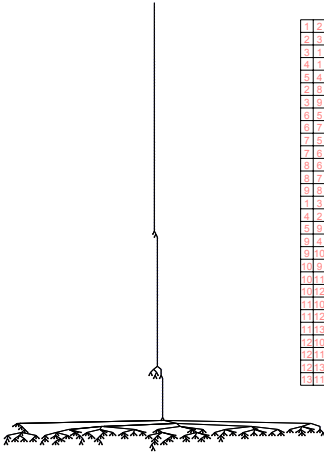


Cork  
Constraint  
Computation  
Centre

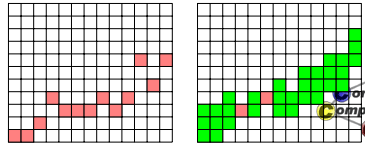
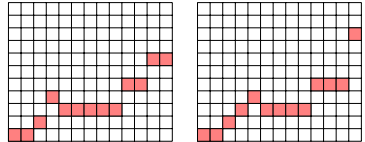
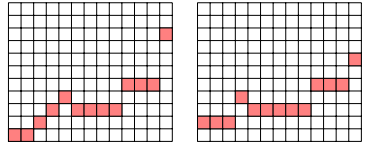
◀ Back to Start   ▶ Skip Animation



# Layered Search



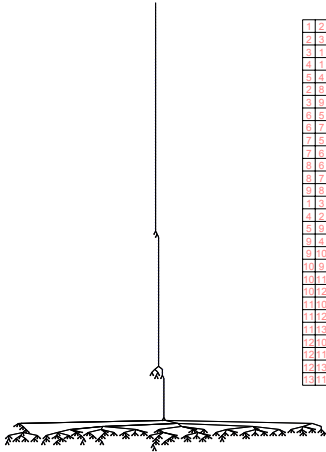
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5	4	2	1	9	8
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3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	2
7	5	6	13	8	7
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11	12	10	7	6	3
11	13	12	9	10	5
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13	11	10	9	12	5



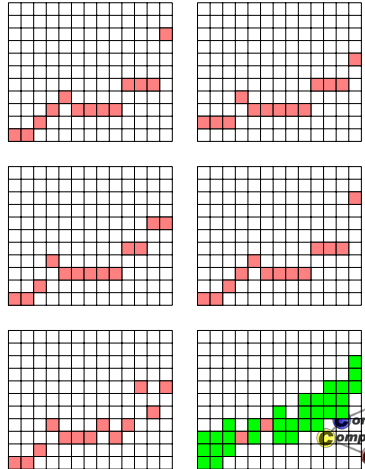
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search

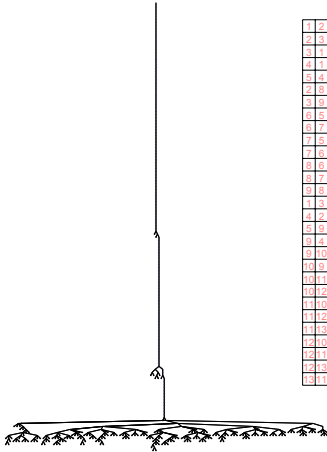


1	2	3	4	5	6
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5	4	2	1	9	8
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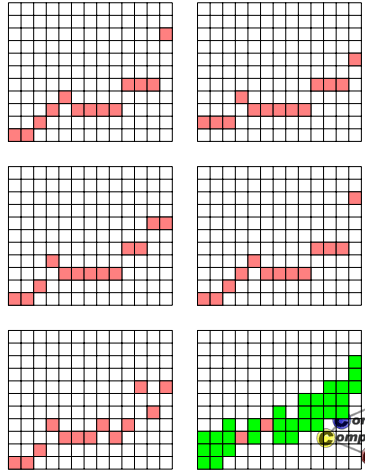


◀ Back to Start    ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	1
6	5	7	8	9	12
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7	6	8	2	9	—
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8	7	9	8	1	—
9	8	1	13	2	3
1	3	10	10	7	—
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11	12	10	7	6	—
11	13	12	9	10	—
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12	13	11	6	8	—
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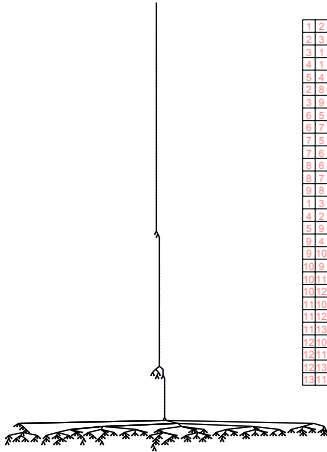


◀ Back to Start   ▶ Skip Animation

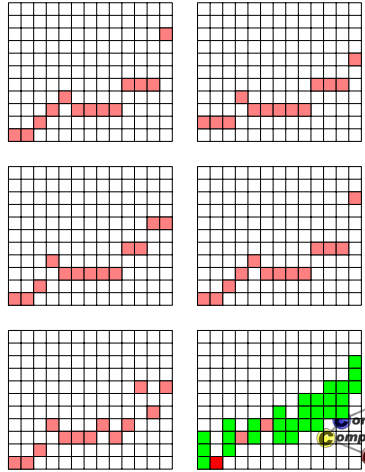
Navigation icons: back, forward, search, refresh, zoom in, zoom out.

● Cork  
● Constraint  
● Computation  
● Centre

# Layered Search

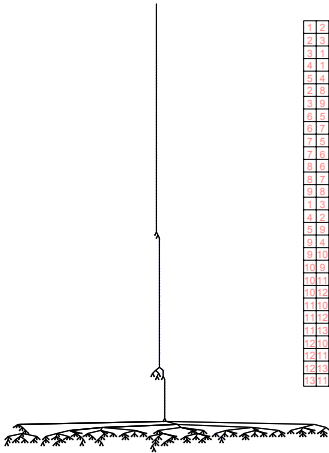


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3	9	6	1	2	4
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7	6	8	2	9	1
8	6	7	3	10	2
8	7	9	8	1	1
9	8	1	18	2	3
1	3	10	10	7	1
4	2	8	16	6	1
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9	10	4	12	1	1
10	9	11	8	12	13
10	11	12	7	4	1
10	12	9	5	11	2
11	10	13	6	12	1
11	12	10	7	6	1
11	13	12	9	10	1
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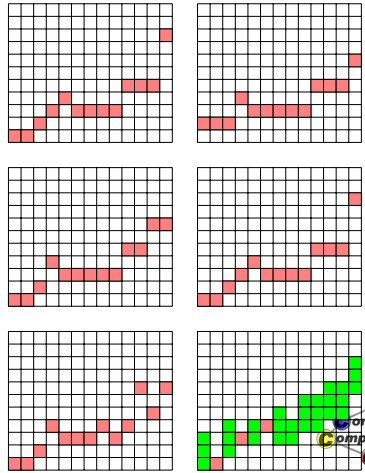


◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	2
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	2
8	7	9	8	1	—
9	8	1	12	2	3
1	3	10	11	7	5
4	2	8	11	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	—
10	9	11	8	12	13
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11	12	10	7	6	—
11	13	12	9	10	—
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12	13	11	6	8	—
13	11	10	9	12	—

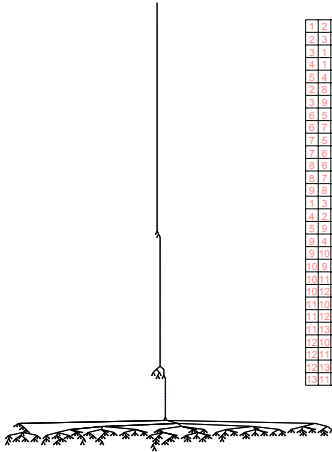


◀ Back to Start   ▶ Skip Animation

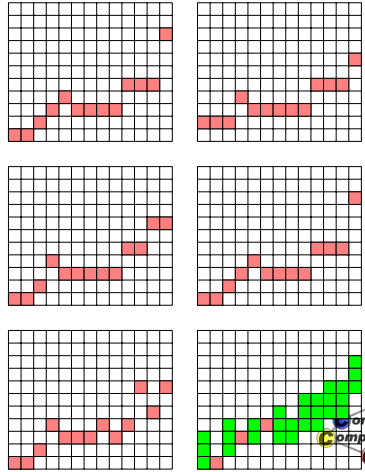
Cork  
Constraint  
Computation  
Centre



# Layered Search



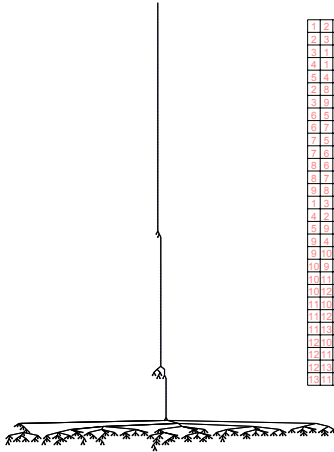
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3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	2
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	2
8	7	9	8	1	—
9	8	1	18	2	3
1	3	10	10	7	8
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	—
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10	12	9	5	11	2
11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	—
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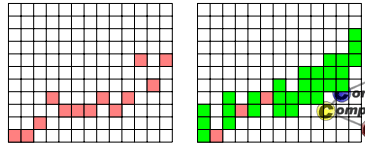
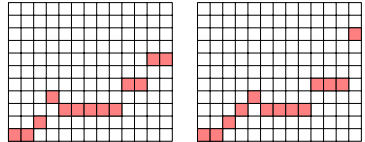
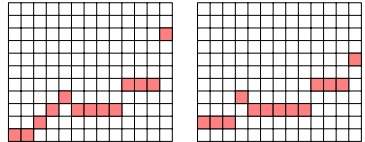
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



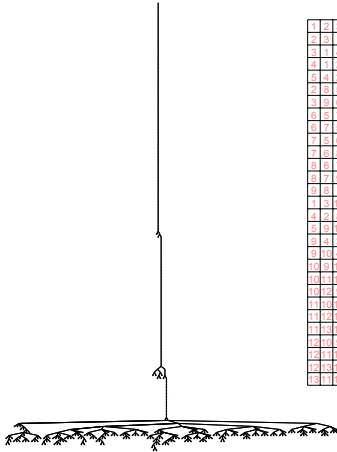
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3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	2
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	2
8	7	9	8	1	—
9	8	1	18	2	3
1	3	10	10	7	12
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
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11	12	10	7	6	—
11	13	12	9	10	—
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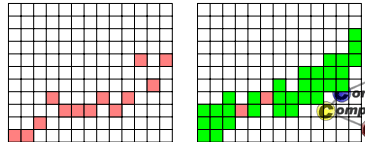
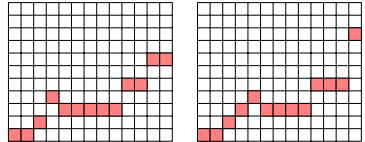
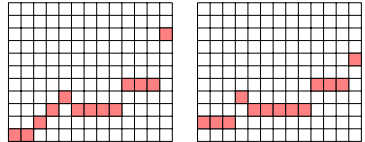
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



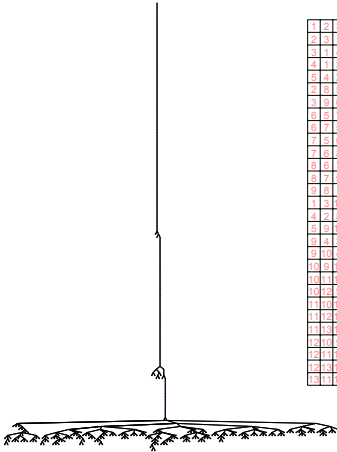
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3	9	6	1	2	4
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6	7	5	12	3	2
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7	6	8	2	9	—
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8	7	9	8	1	—
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1	3	10	16	7	—
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11	12	10	7	6	—
11	13	12	9	10	—
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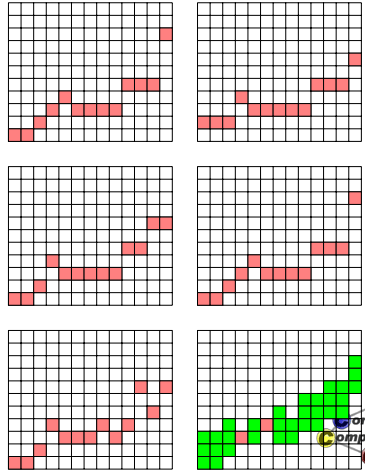
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	1
6	7	5	12	3	2
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7	6	8	2	9	1
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11	12	10	7	6	1
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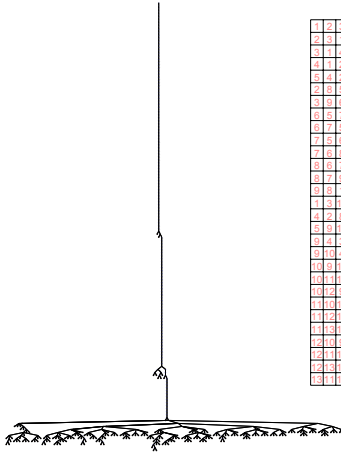


◀ Back to Start   ▶ Skip Animation

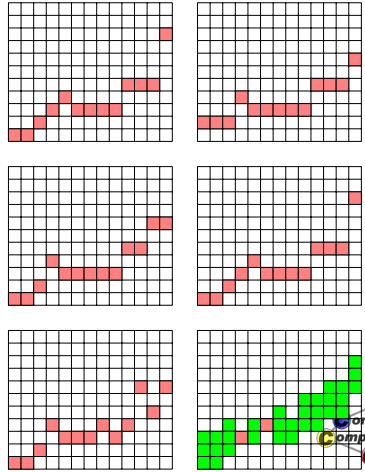


Cork  
Constraint  
Computation  
Centre

# Layered Search

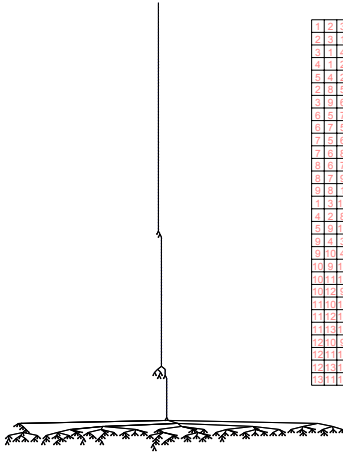


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2	8	5	9	1	4
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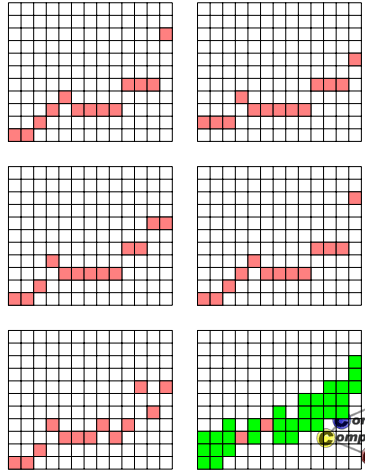


◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
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2	8	5	9	1	4
3	9	6	1	2	4
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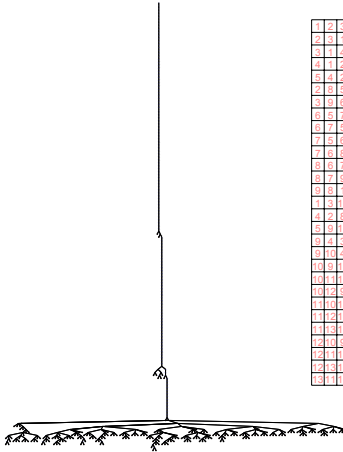


Cork  
Constraint  
Computation  
Centre

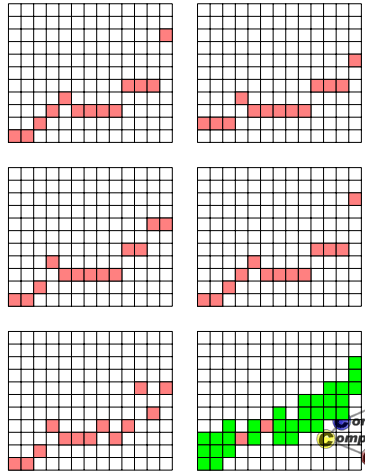
◀ Back to Start    ▶ Skip Animation



# Layered Search

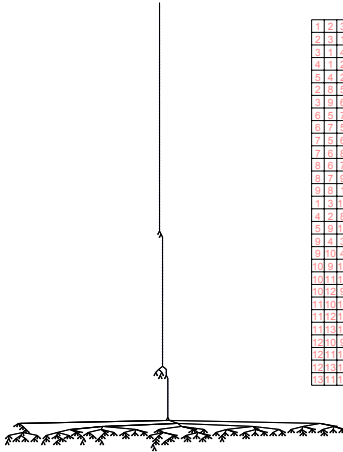


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3	9	6	1	2	4
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7	6	8	2	9	—
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12	10	9	7	13	—
12	11	13	8	2	—
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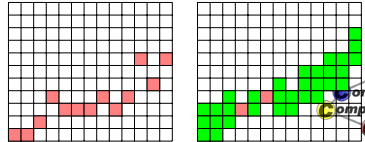
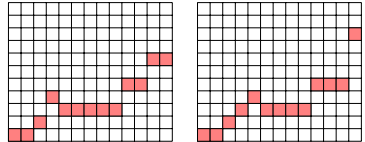
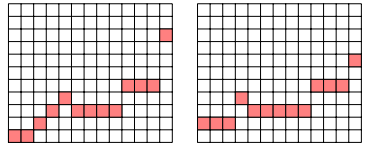


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# Layered Search



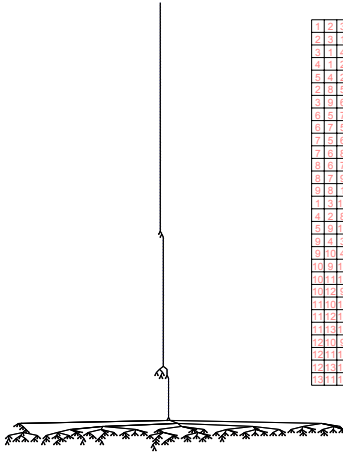
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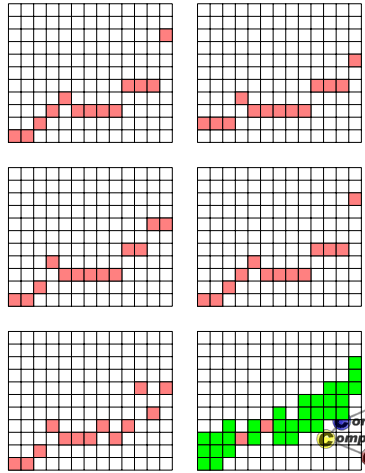
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# Layered Search



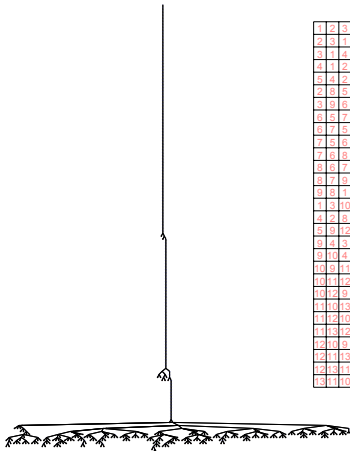
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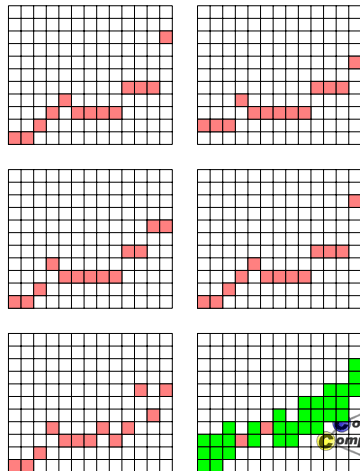
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



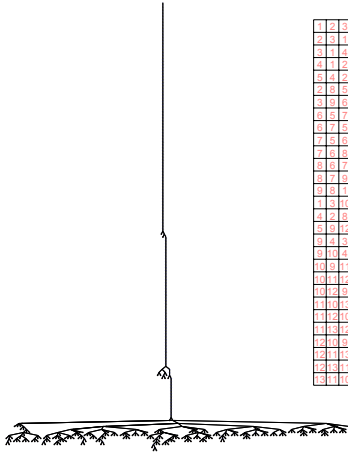
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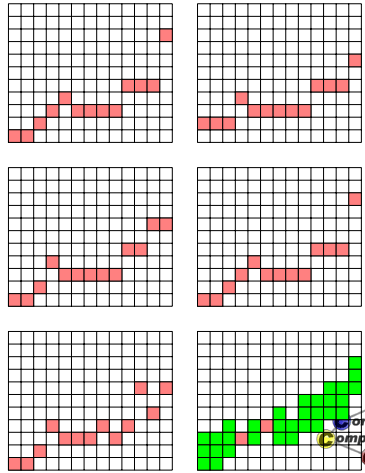
◀ Back to Start   ▶ Skip Animation

Cork
   
 Constraint
   
 Computation
   
 Centre

# Layered Search



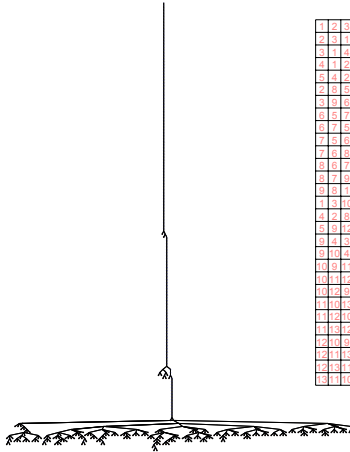
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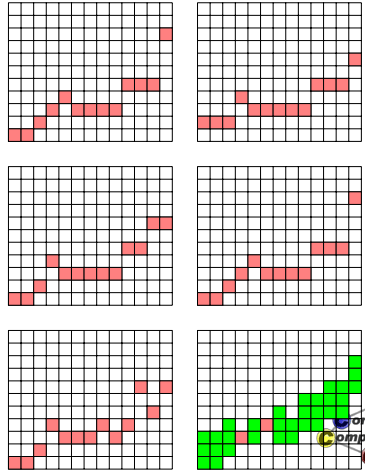
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



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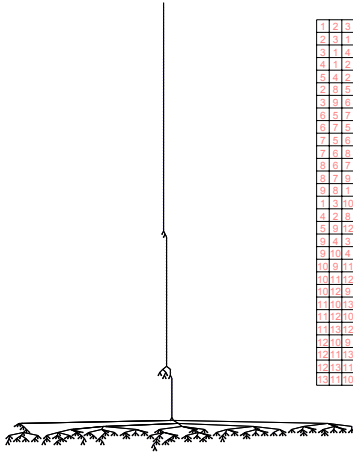


Cork  
Constraint  
Computation  
Centre

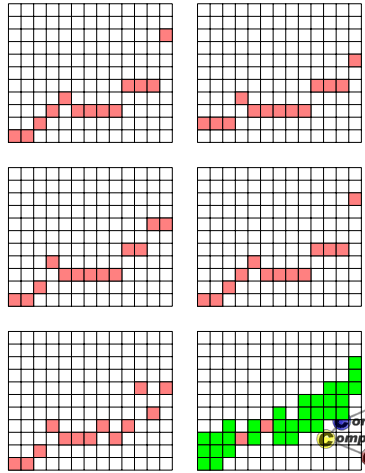
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# Layered Search



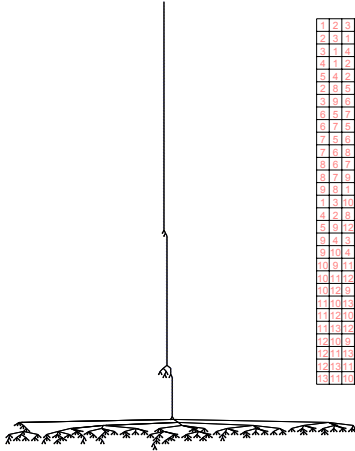
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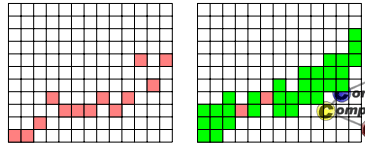
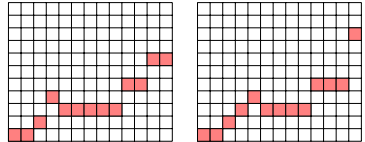
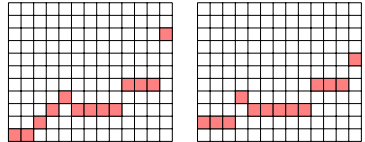
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



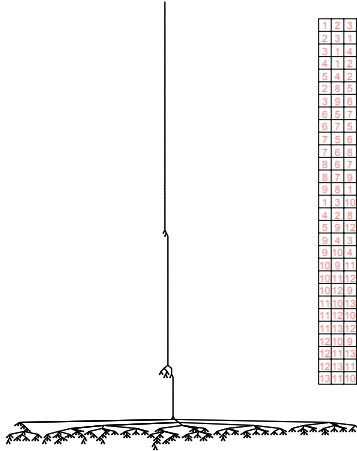
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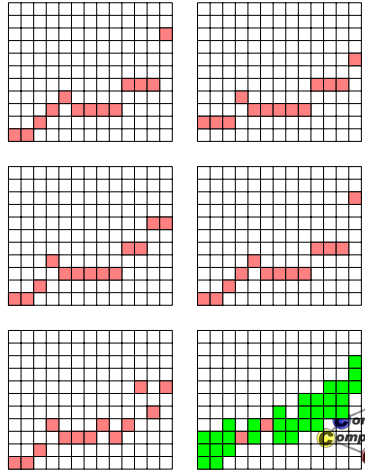
◀ Back to Start   ▶ Skip Animation

Cork  
 Constraint  
 Computation  
 Centre

# Layered Search

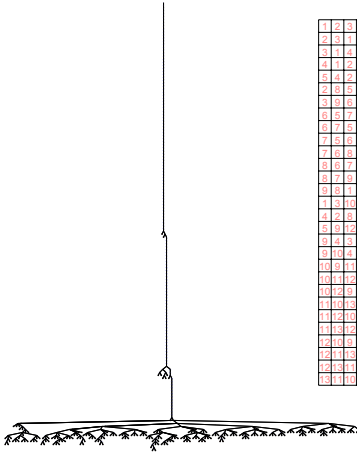


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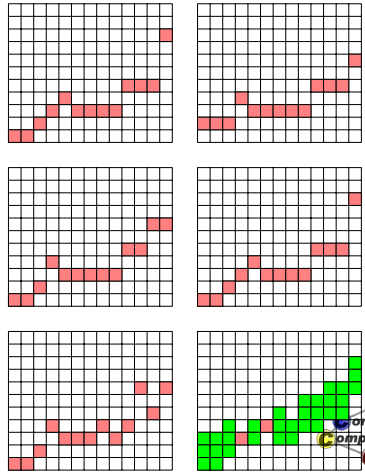


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# Layered Search



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11	13	12	9	10	1
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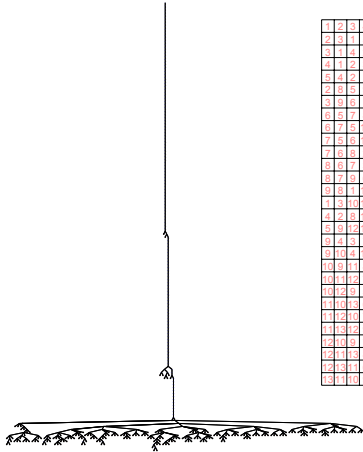


Cork  
Constraint  
Computation  
Centre

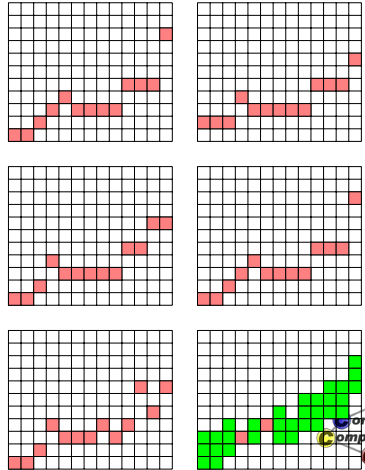
◀ Back to Start    ▶ Skip Animation



# Layered Search

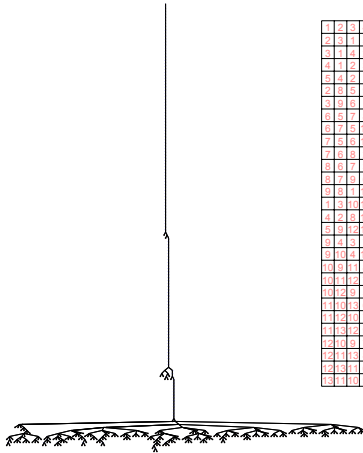


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11	12	10	7	6	11
11	13	12	9	10	11
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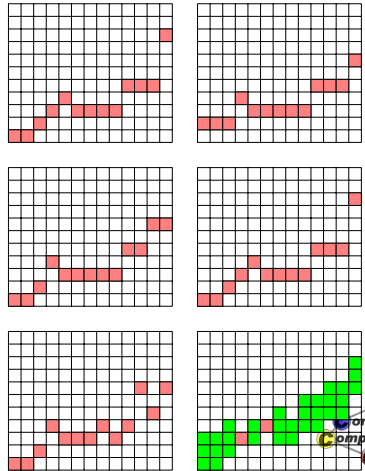


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# Layered Search

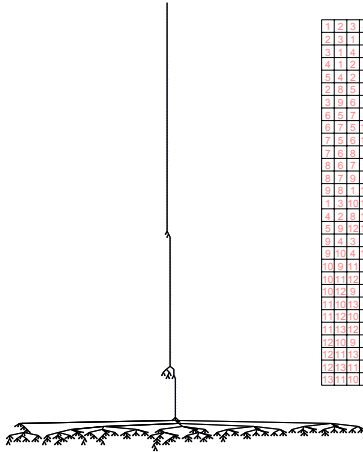


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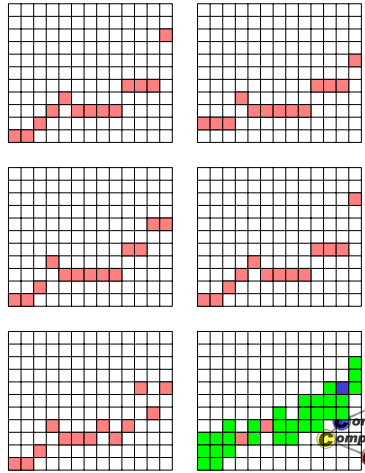


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# Layered Search



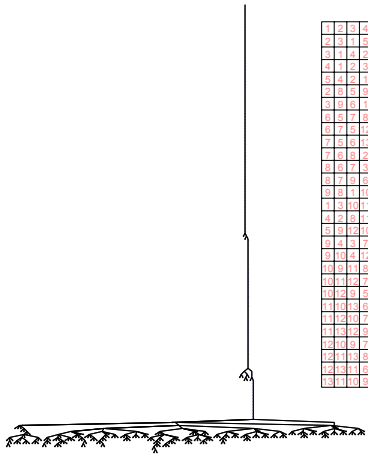
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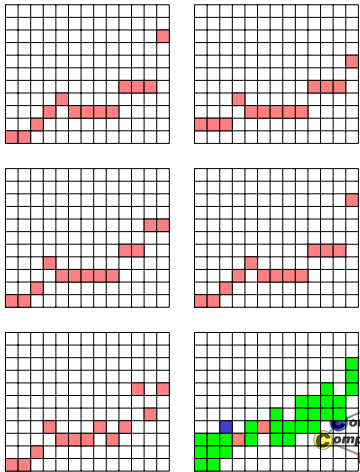
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search

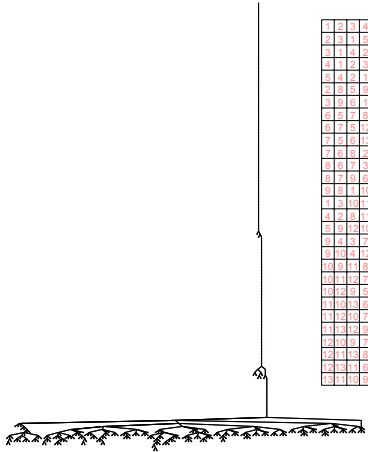


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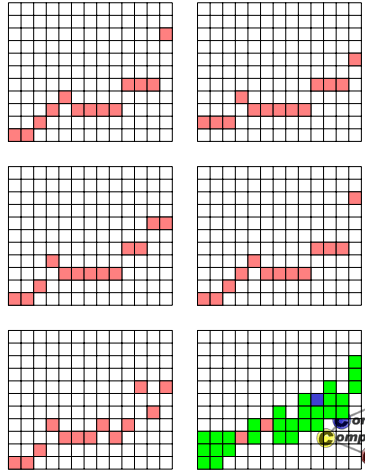


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# Layered Search



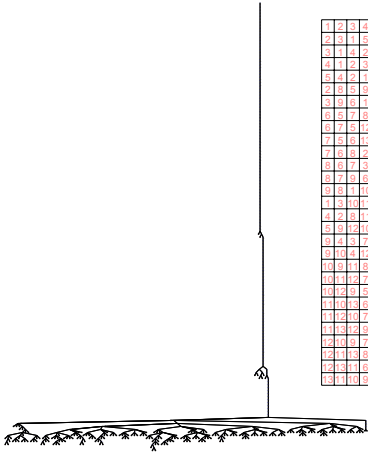
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7	6	8	2	9	—
8	6	7	3	10	—
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1	3	10	10	7	—
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5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	—
10	9	11	8	12	3
10	11	12	7	4	—
10	12	9	5	11	2
11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	—
12	10	9	7	13	—
12	11	13	8	2	—
12	13	11	6	8	—
13	11	10	9	12	—



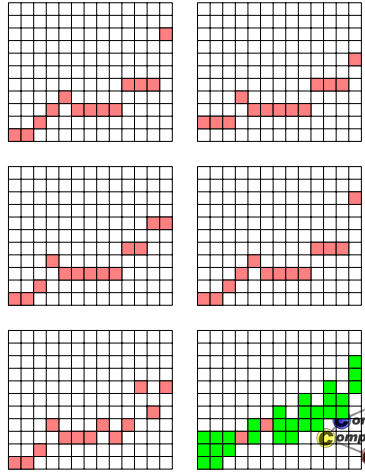
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



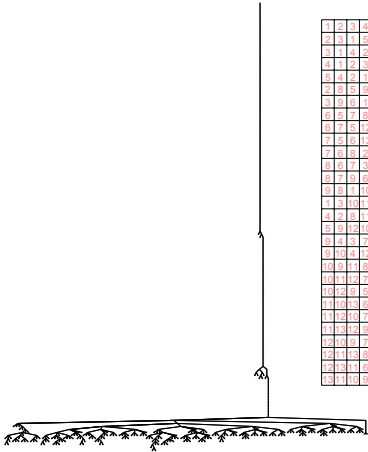
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	1
6	7	5	12	3	1
7	5	6	13	8	1
7	6	8	2	9	1
8	6	7	3	10	1
8	7	9	8	1	10
9	8	1	13	2	3
1	3	10	10	7	1
4	2	8	13	6	1
5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	1
10	9	11	8	12	3
10	11	12	7	4	1
10	12	9	5	11	2
11	10	13	6	12	1
11	12	10	7	6	1
11	13	12	9	10	1
12	10	9	7	13	1
12	11	13	8	2	1
12	13	11	6	8	1
13	11	10	9	12	1



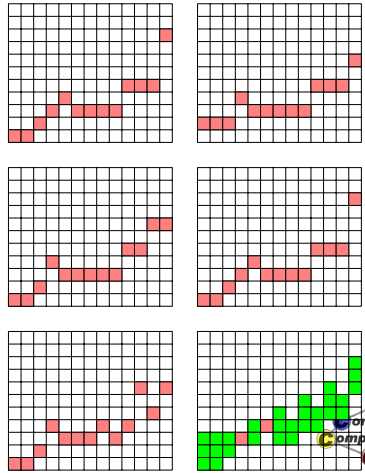
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



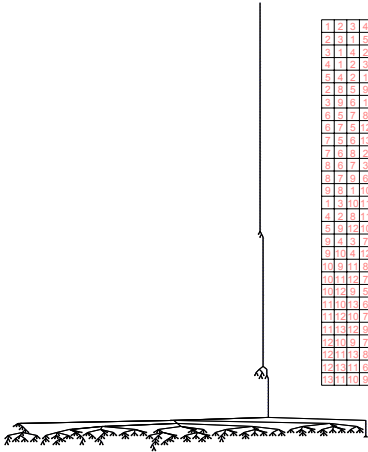
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	3
6	5	7	8	9	2
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7	5	6	13	8	-
7	6	8	2	9	-
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11	12	10	7	6	-
11	13	12	9	10	-
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13	11	10	9	12	-



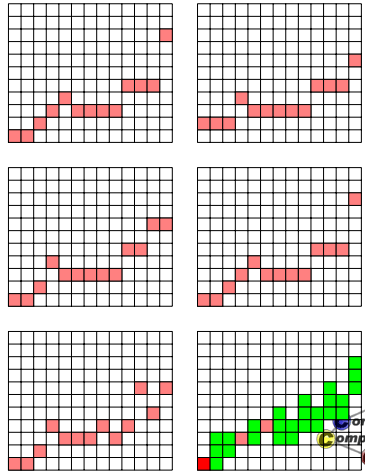
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	2
6	7	5	12	3	11
7	5	6	13	6	1
7	6	8	2	9	-
8	6	7	3	10	-
8	7	9	8	1	10
9	8	1	13	2	3
1	3	10	10	7	-
4	2	8	13	6	-
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9	4	3	7	11	12
9	10	4	12	1	-
10	9	11	8	12	3
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11	12	10	7	6	-
11	13	12	9	10	-
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12	11	13	8	2	-
12	13	11	6	8	-
13	11	10	9	12	-

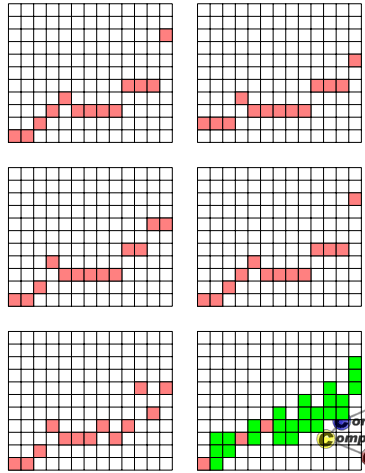
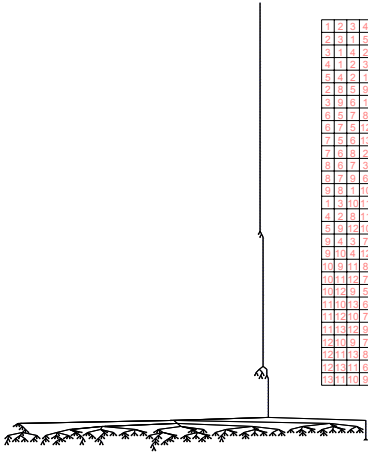


Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation



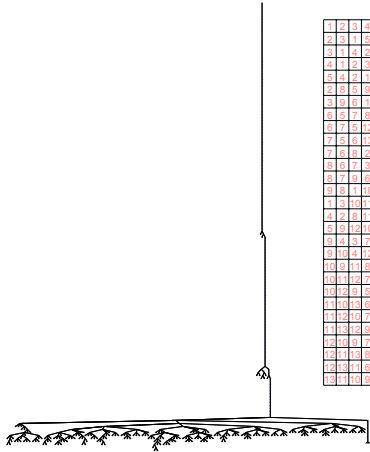
# Layered Search



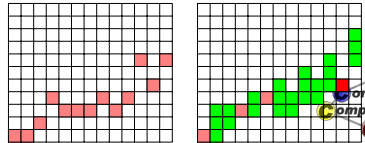
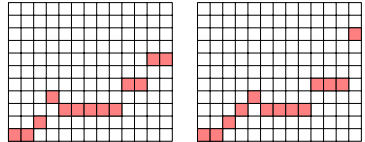
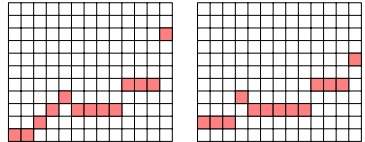
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search

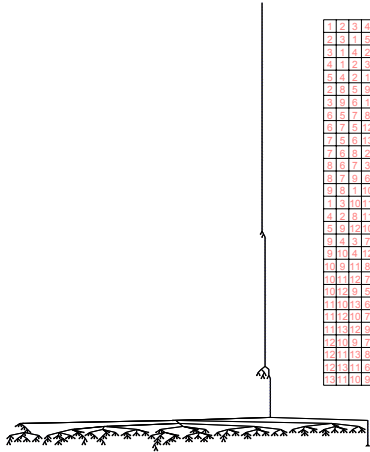


1	2	3	4	5	6
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	2
6	7	5	12	3	1
7	5	6	13	8	1
7	6	8	2	9	11
8	6	7	3	10	12
8	7	9	8	1	10
9	8	1	13	2	3
1	3	10	10	7	3
4	2	8	13	6	3
5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	3
10	9	11	8	12	3
10	11	12	7	4	3
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11	12	10	7	6	3
11	13	12	9	10	3
12	10	9	7	13	3
12	11	13	8	2	3
12	13	11	6	8	3
13	11	10	9	12	3

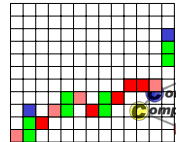
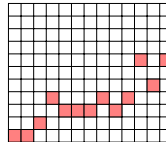
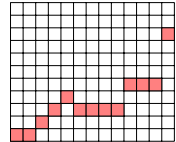
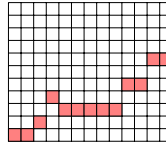
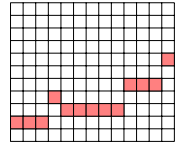
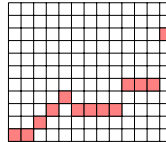


◀ Back to Start   ▶ Skip Animation

# Layered Search



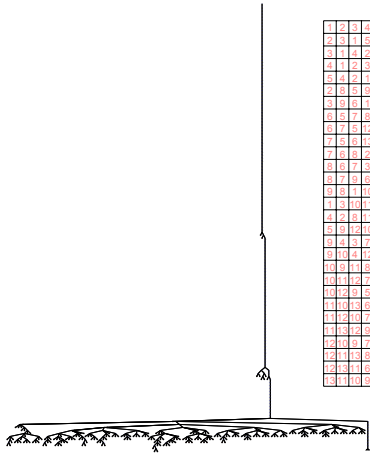
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	2
6	7	5	12	3	1
7	5	6	13	8	1
7	6	8	2	9	11
8	6	7	3	10	12
8	7	9	8	1	10
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9	4	3	7	11	12
9	10	4	12	1	-
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11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	-
12	10	9	7	13	-
12	11	13	8	2	10
12	13	11	6	8	-
13	11	10	9	12	-



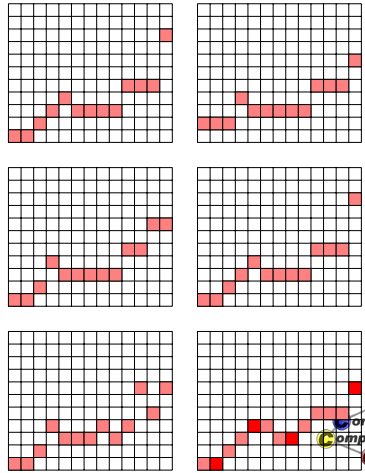
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered Search

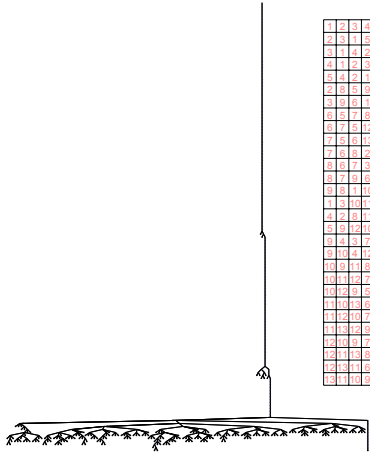


1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	2
6	7	5	12	3	1
7	5	6	13	8	1
7	6	8	2	9	11
8	6	7	3	10	12
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9	8	1	18	2	3
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4	2	8	16	6	3
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9	4	3	7	11	12
9	10	4	12	1	13
10	9	11	8	12	3
10	11	12	7	4	13
10	12	9	5	11	2
11	10	13	6	12	1
11	12	10	7	6	5
11	13	12	9	10	1
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12	13	11	6	8	7
13	11	10	9	12	1

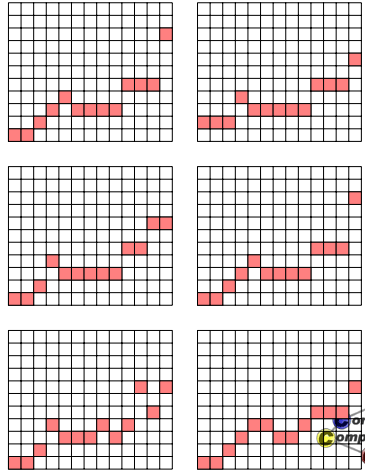


◀ Back to Start   ▶ Skip Animation

# Layered Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	2
6	7	5	12	3	1
7	5	6	13	8	1
7	6	8	2	9	11
8	6	7	3	10	12
8	7	9	8	1	10
9	8	1	18	2	3
1	3	10	10	7	8
4	2	8	16	6	3
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9	4	3	7	11	12
9	10	4	12	1	13
10	9	11	8	12	3
10	11	12	7	4	13
10	12	9	5	11	2
11	10	13	6	12	1
11	12	10	7	6	5
11	13	12	9	10	2
12	10	9	7	13	11
12	11	13	8	2	10
12	13	11	6	8	1
13	11	10	9	12	1

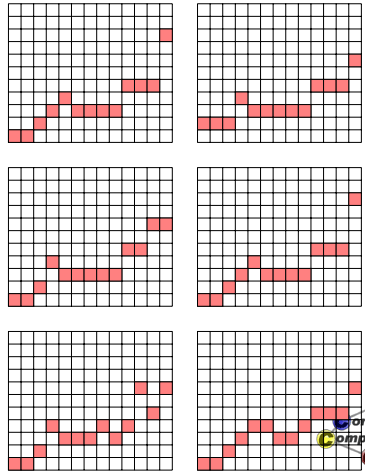
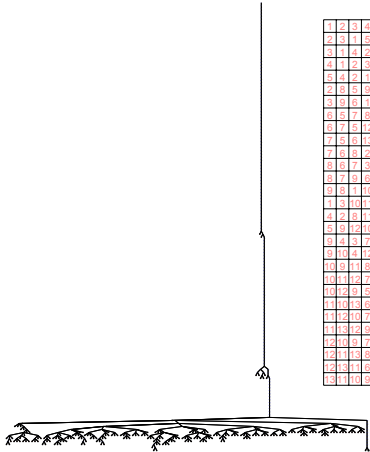


◀ Back to Start   ▶ Skip Animation

Navigation icons: back, forward, search, etc.

**Cork** (green circle)  
**Constraint** (blue circle)  
**Computation** (yellow circle)  
**Centre** (red circle)

# Layered Search



◀ Back to Start

Cork  
Constraint  
Computation  
Centre

## Observations

- Deep backtracking for last time period
- No backtracking to earlier time periods required
- Small amount of backtracking at other time periods



# Idea

- Use credit based search
- But not for complete search tree
- Loose too much useful work
- Backtrack independently for each time period
- Hope to correct wrong choices without deep backtracking



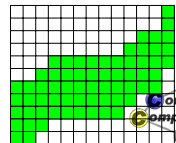
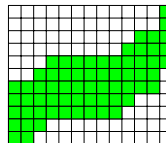
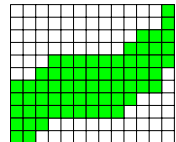
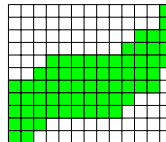
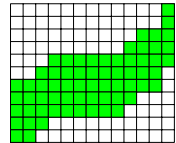
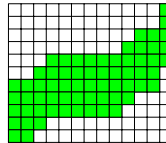


## Layered with Credit

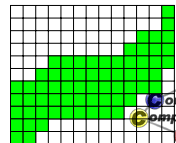
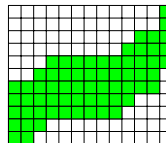
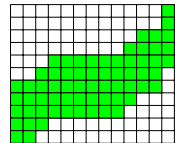
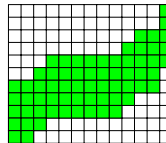
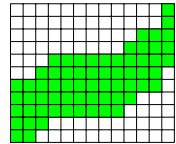
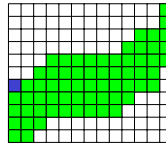
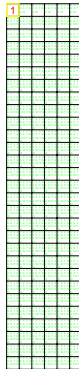
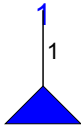
```
assign(Matrix, NrPeriods, NrGuests) :-  
    (for(J, 1, NrPeriods),  
     param(Matrix, NrGuests) do  
         NSq is NrGuests*NrGuests,  
         search(Matrix[1..NrGuests, J], 0,  
                first_fail, indomain,  
                credit(NSq, 10), [])  
    ).
```



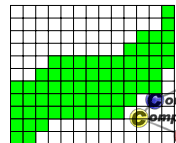
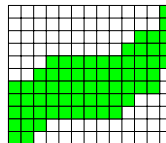
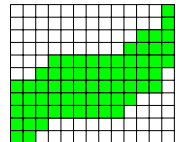
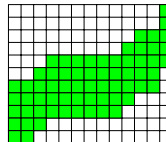
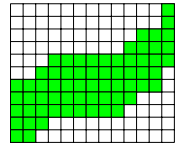
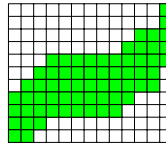
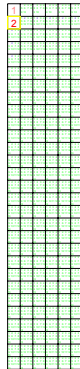
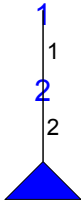
# Layered with Credit Search



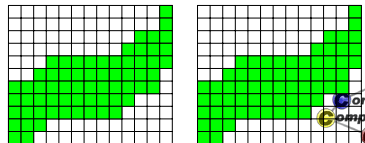
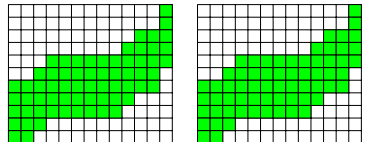
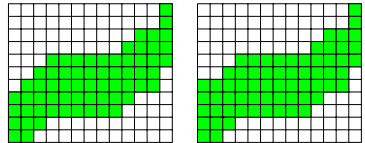
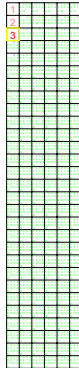
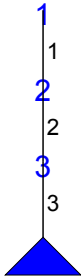
# Layered with Credit Search



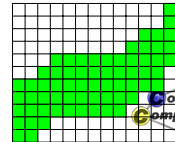
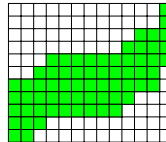
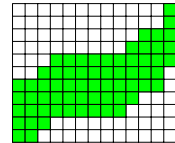
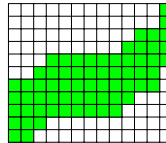
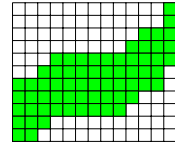
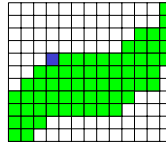
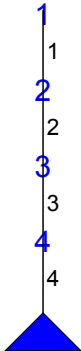
# Layered with Credit Search



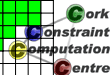
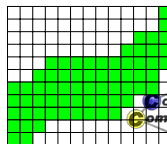
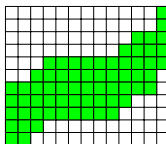
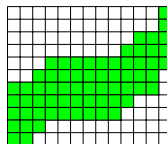
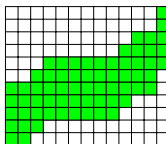
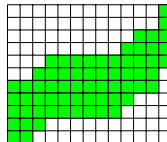
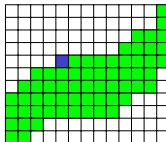
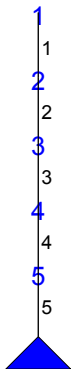
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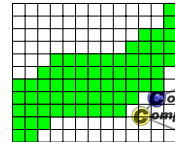
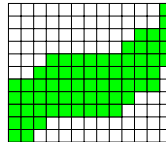
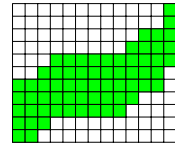
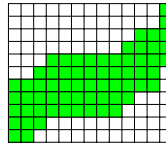
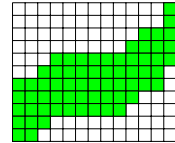
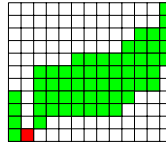
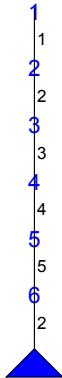
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# Layered with Credit Search



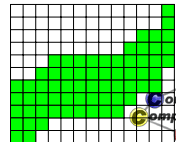
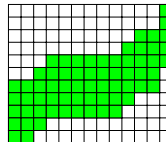
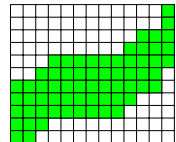
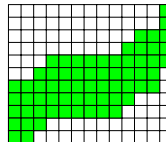
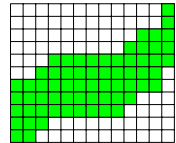
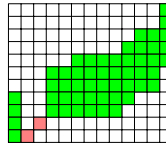
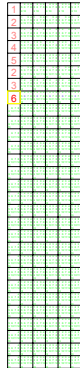
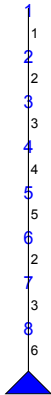
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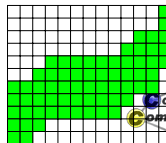
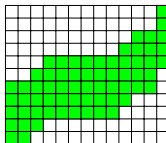
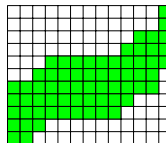
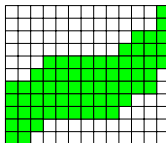
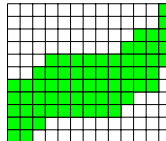
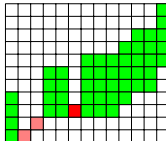
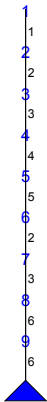




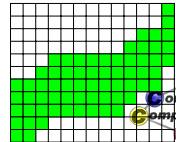
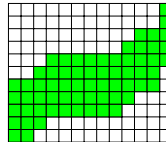
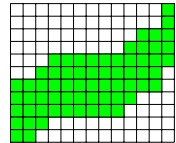
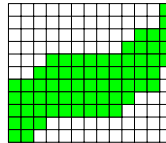
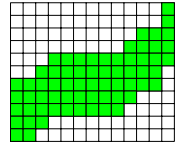
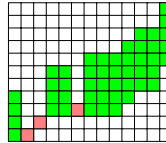
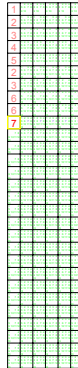
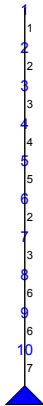
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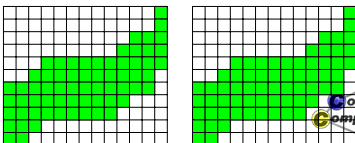
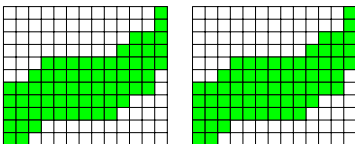
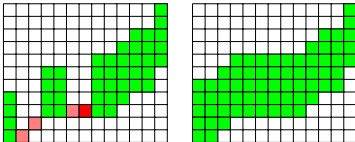
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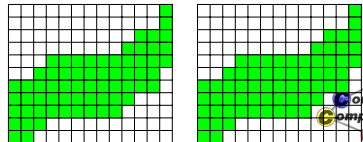
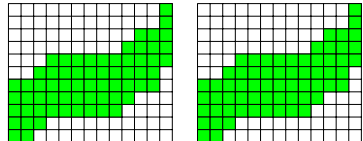
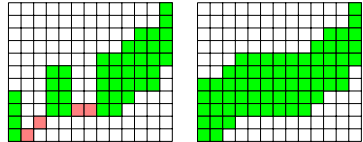
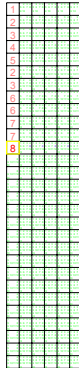
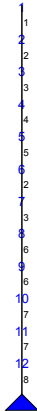
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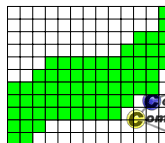
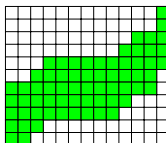
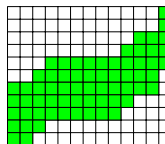
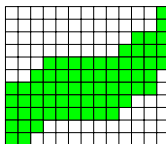
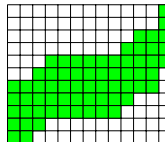
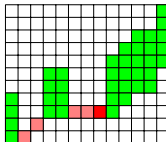
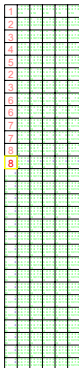
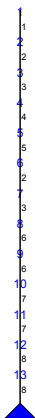
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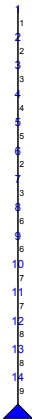
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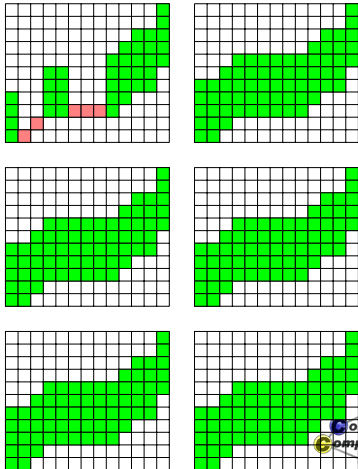
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# Layered with Credit Search

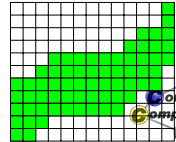
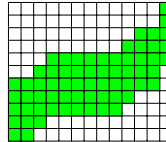
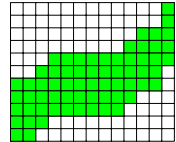
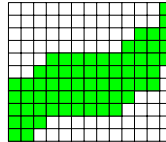
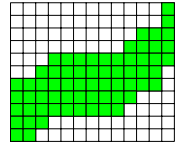
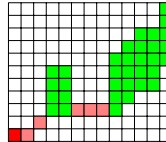


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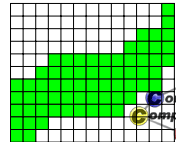
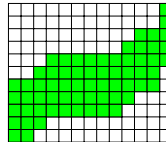
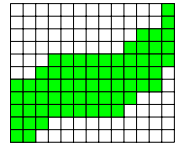
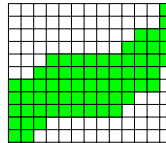
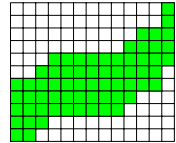
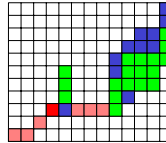
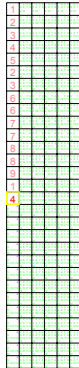




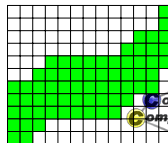
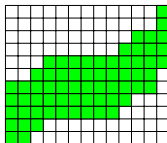
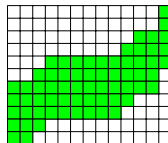
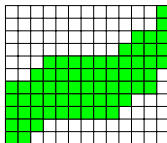
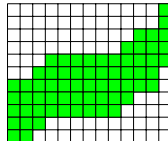
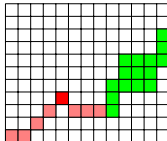
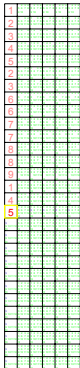
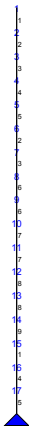
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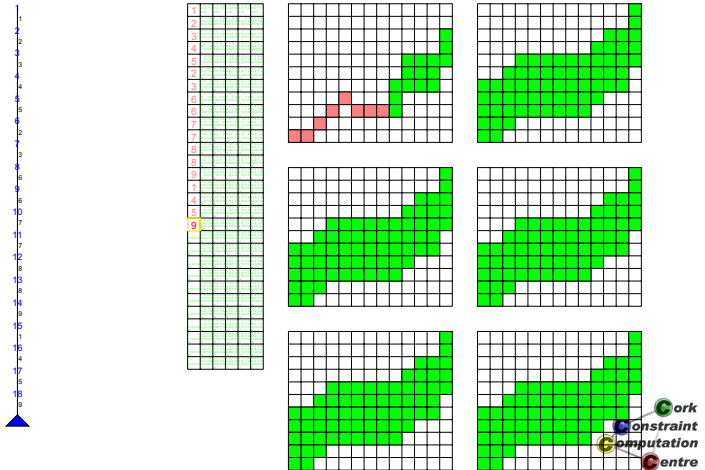
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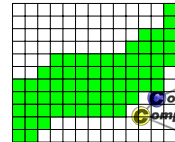
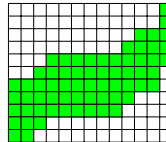
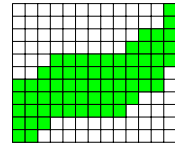
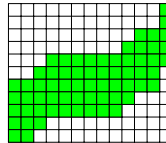
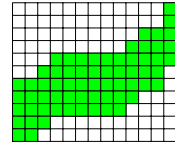
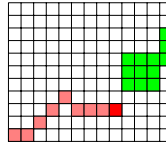
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# Layered with Credit Search



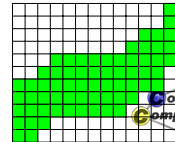
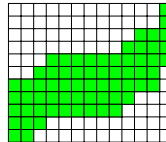
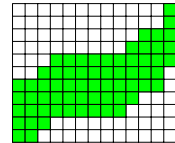
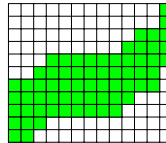
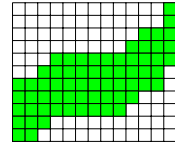
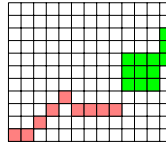
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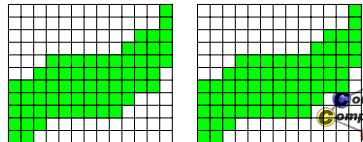
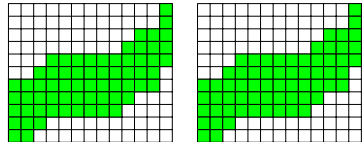
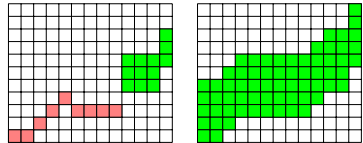
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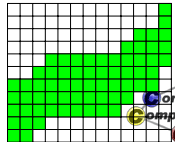
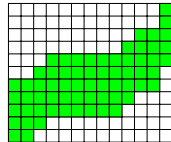
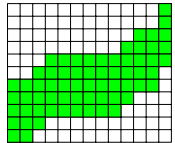
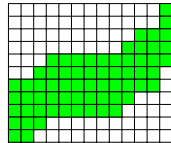
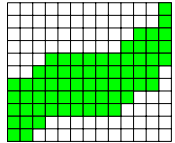
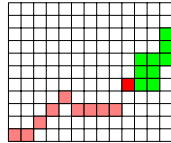
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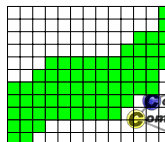
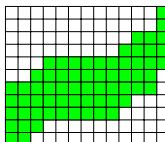
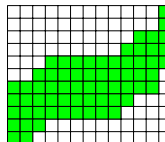
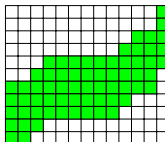
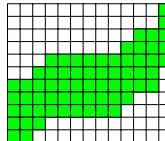
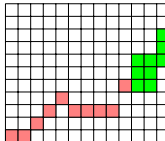




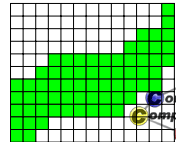
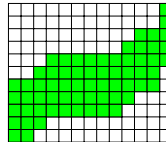
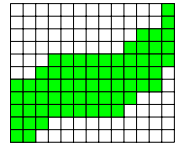
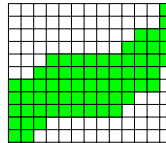
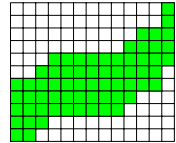
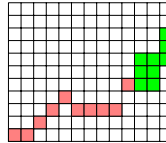
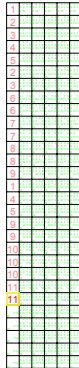
# Layered with Credit Search



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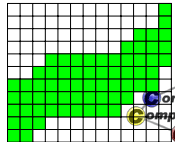
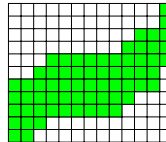
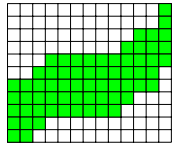
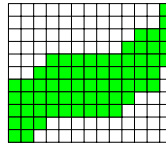
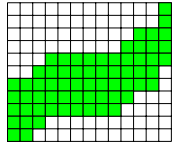
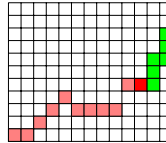
# Layered with Credit Search



# Layered with Credit Search



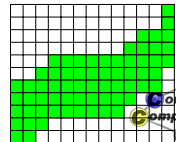
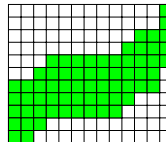
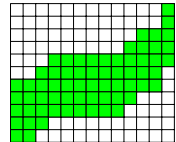
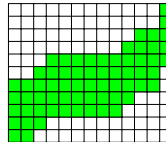
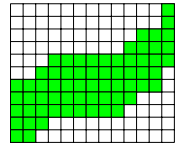
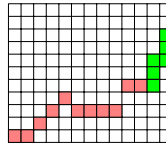
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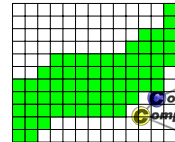
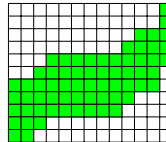
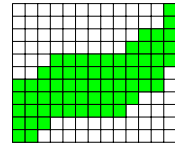
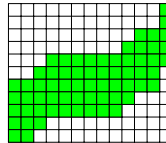
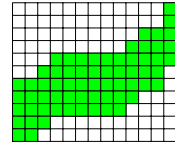
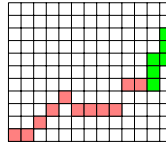
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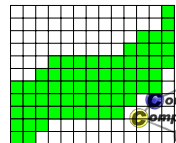
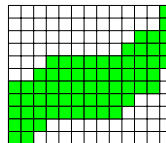
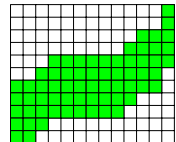
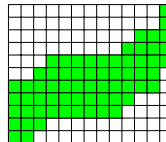
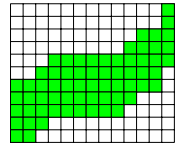
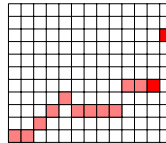
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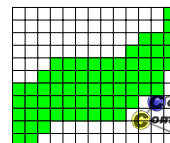
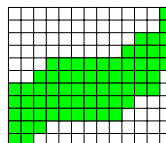
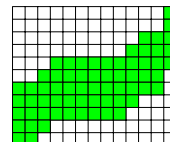
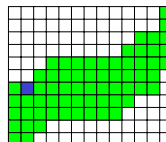
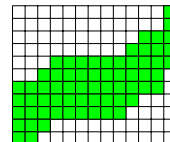
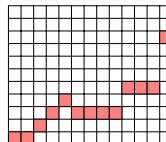
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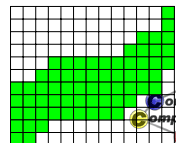
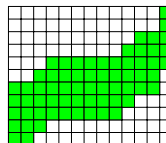
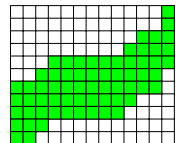
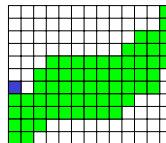
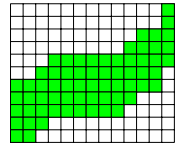
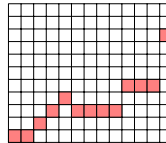
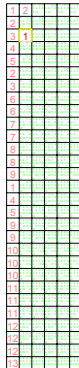
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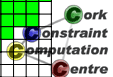
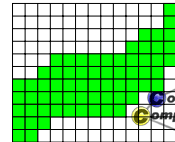
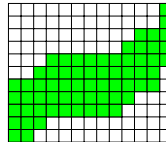
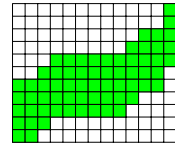
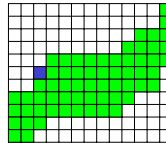
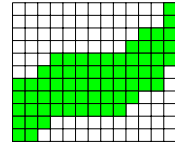




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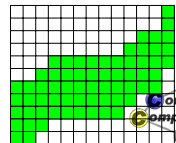
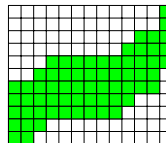
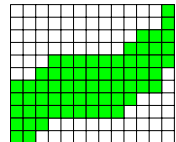
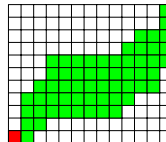
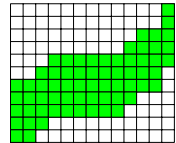
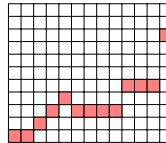
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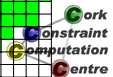
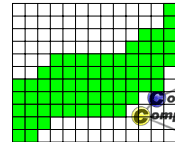
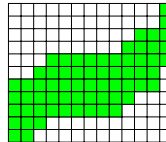
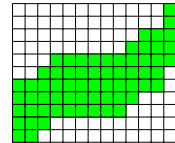
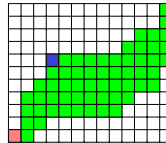
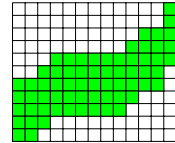
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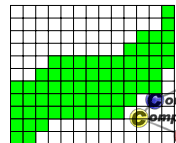
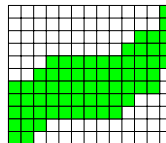
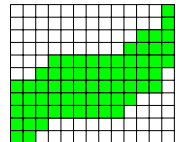
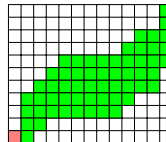
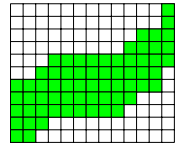
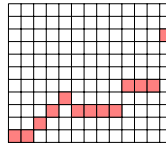
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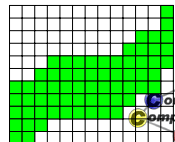
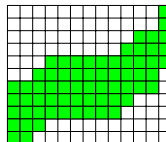
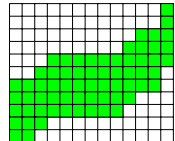
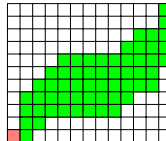
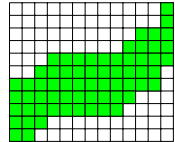
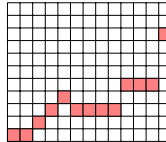
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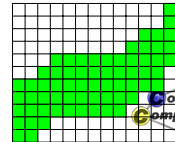
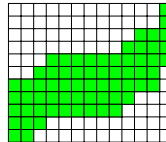
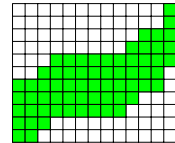
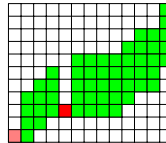
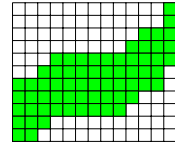
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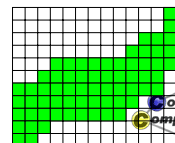
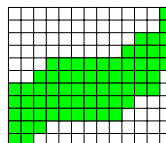
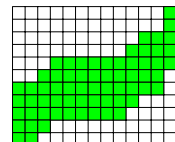
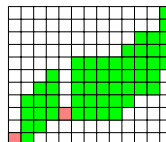
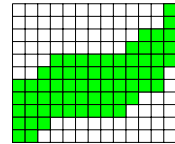
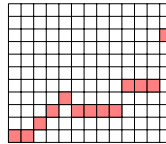
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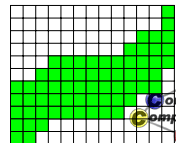
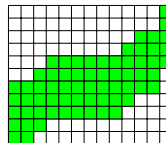
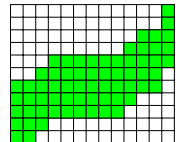
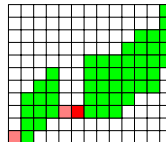
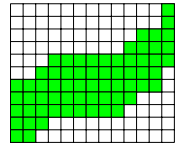
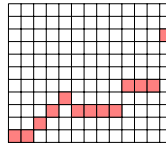
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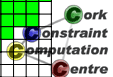
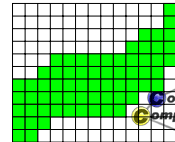
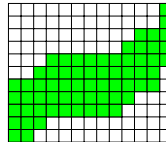
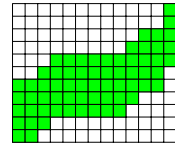
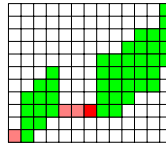
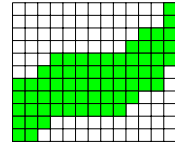




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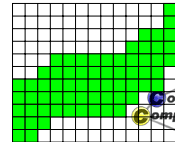
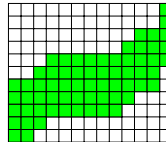
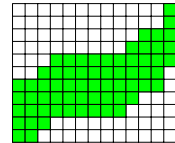
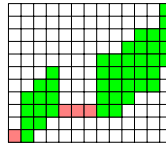
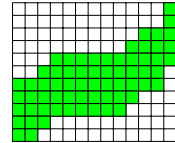
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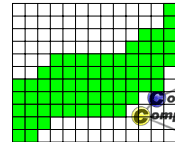
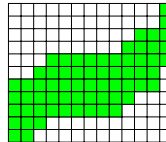
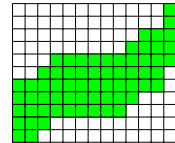
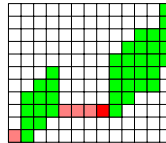
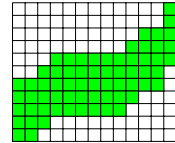
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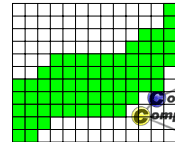
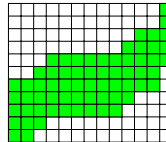
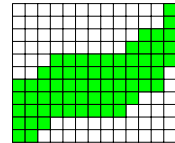
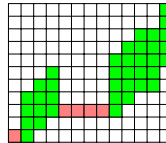
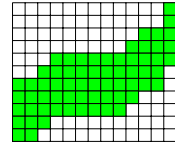
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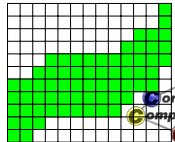
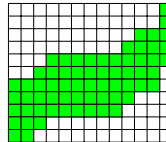
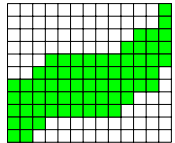
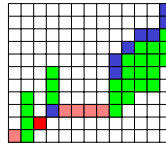
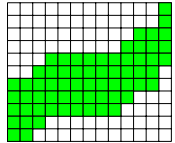
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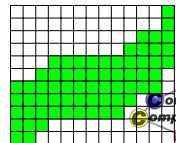
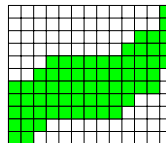
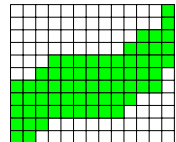
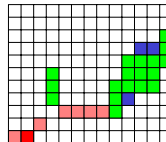
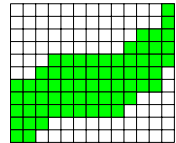
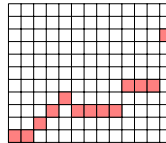
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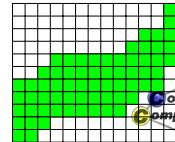
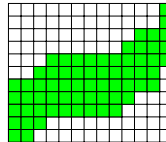
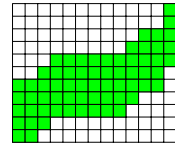
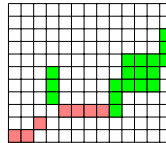
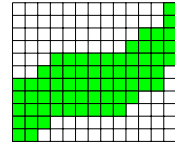
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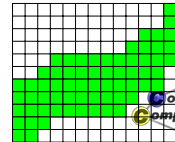
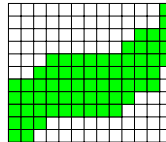
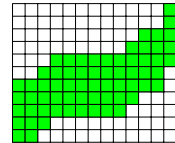
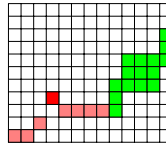
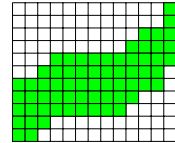
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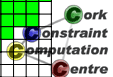
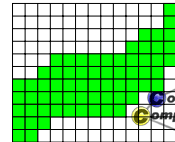
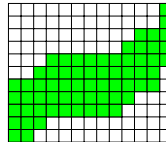
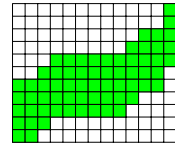
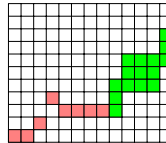
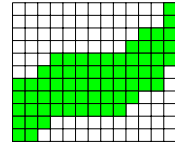




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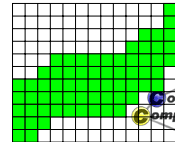
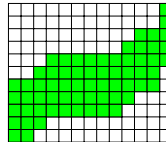
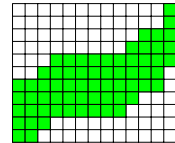
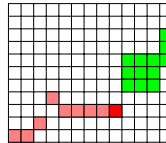
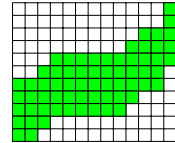
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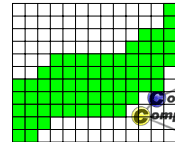
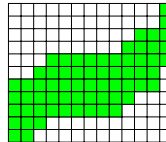
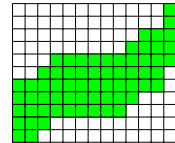
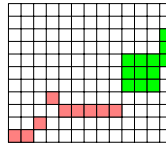
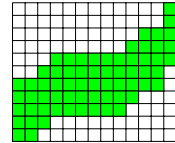
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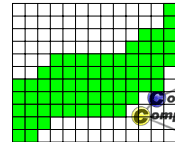
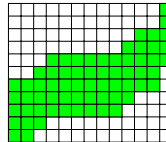
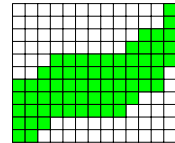
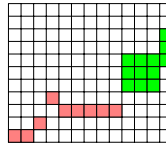
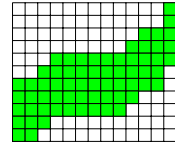
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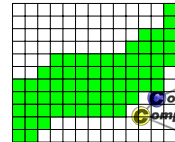
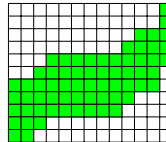
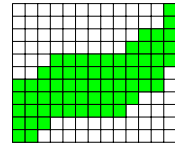
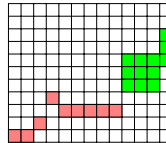
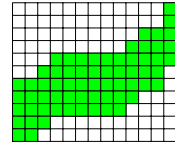
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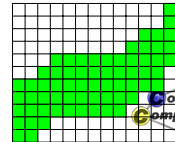
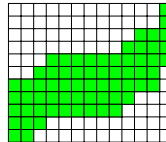
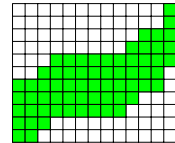
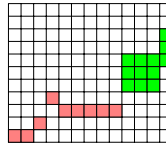
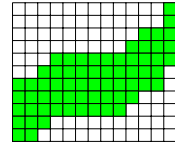
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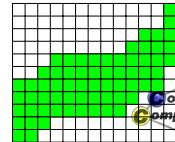
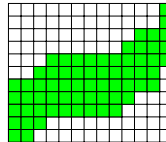
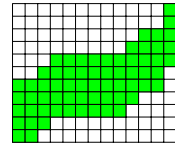
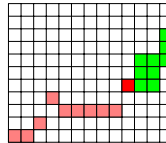
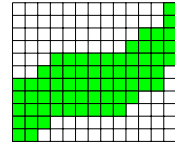
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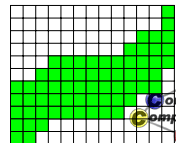
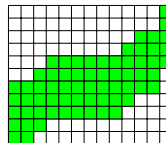
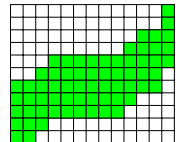
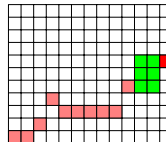
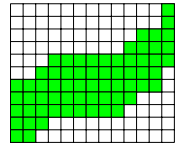
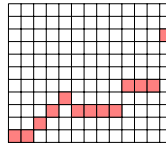
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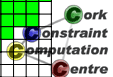
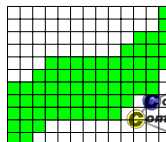
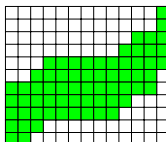
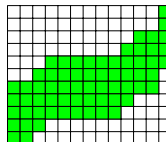
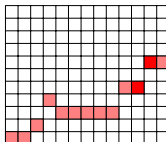
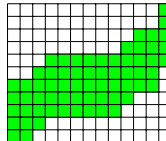
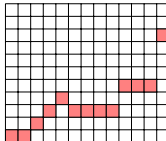




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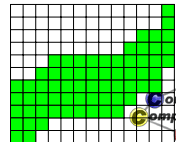
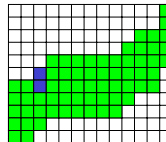
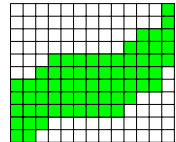
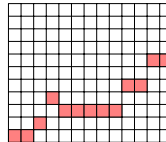
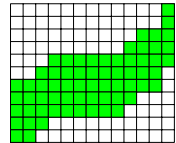
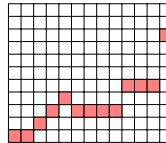
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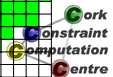
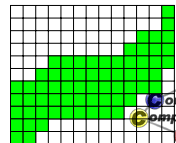
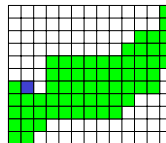
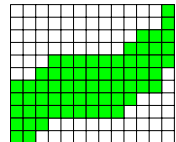
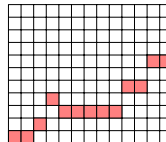
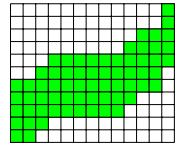
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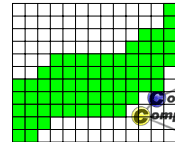
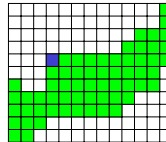
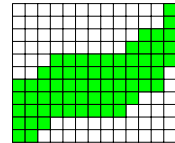
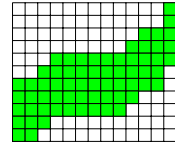
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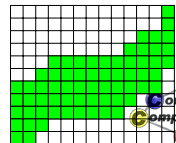
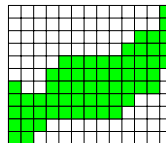
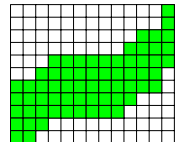
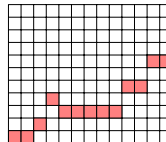
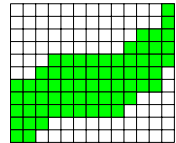
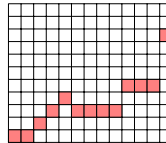
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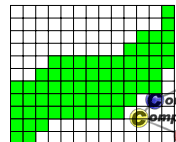
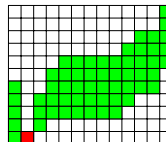
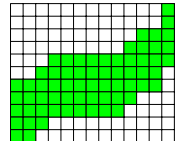
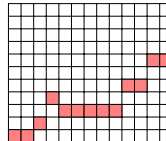
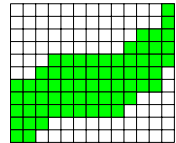
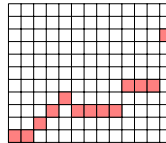
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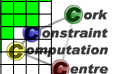
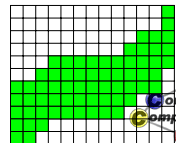
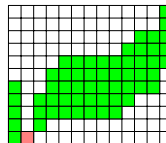
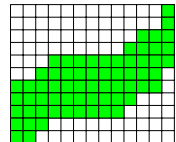
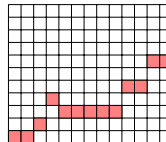
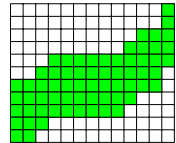
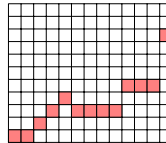


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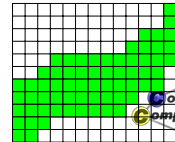
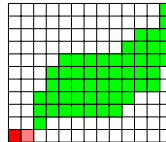
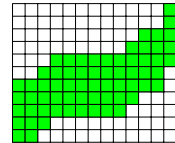
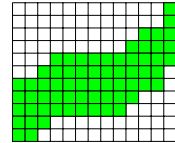
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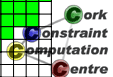
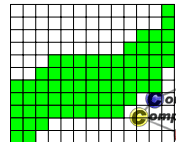
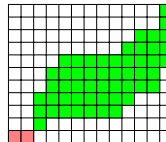
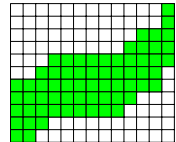
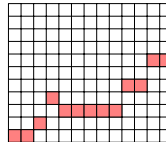
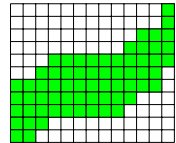




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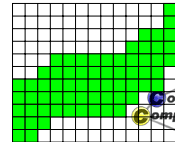
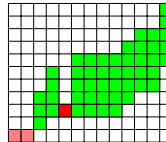
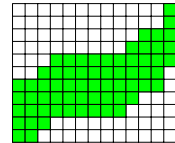
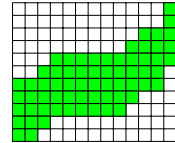
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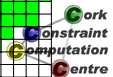
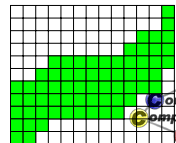
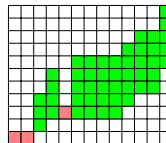
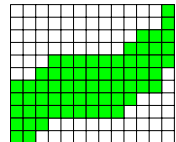
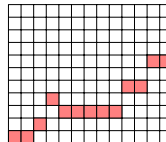
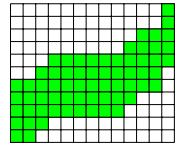
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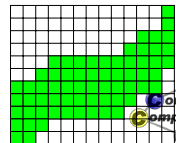
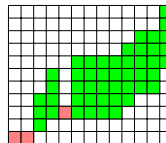
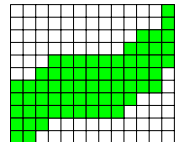
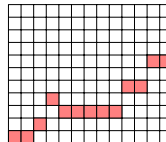
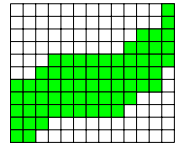
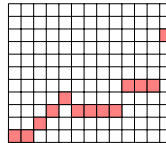


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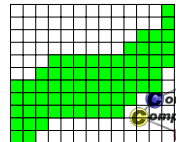
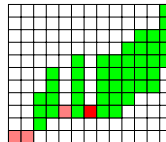
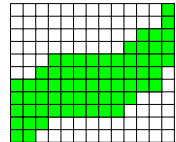
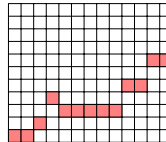
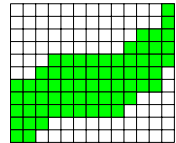
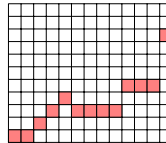
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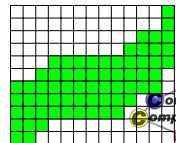
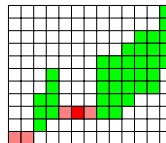
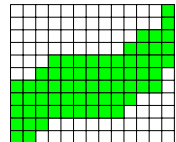
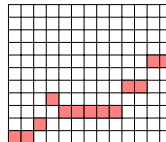
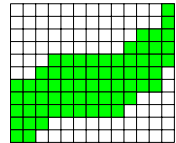
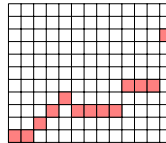
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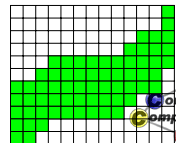
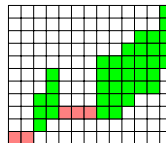
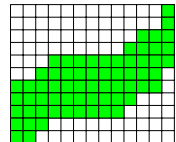
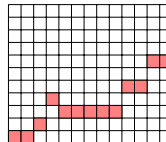
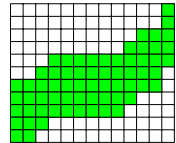
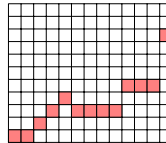


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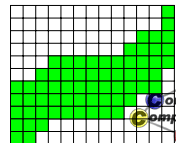
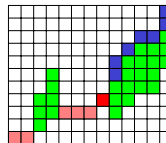
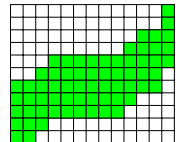
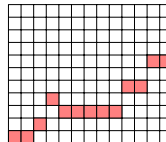
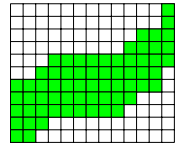
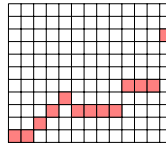
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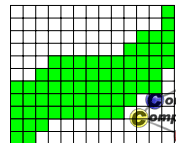
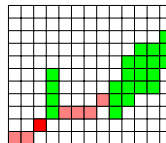
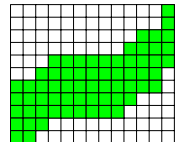
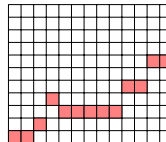
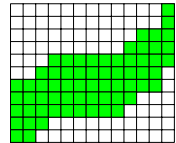
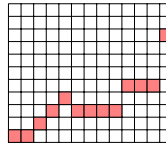
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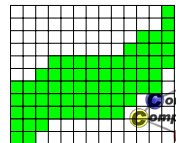
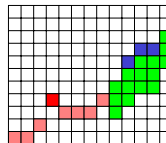
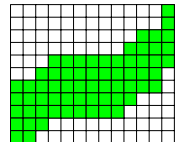
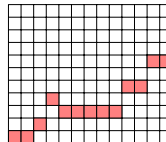
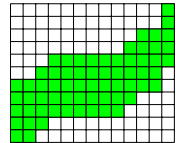
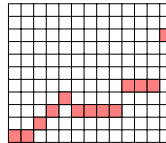
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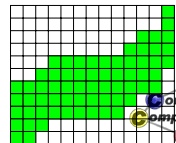
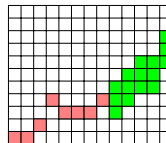
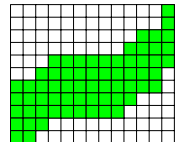
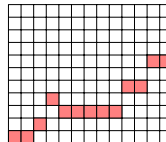
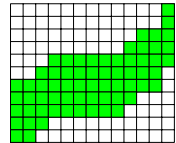
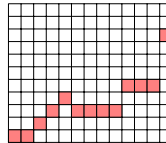
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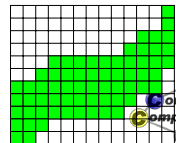
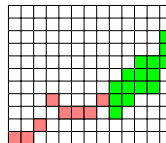
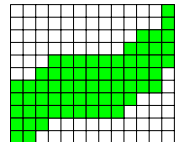
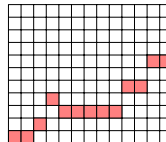
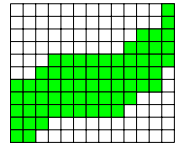
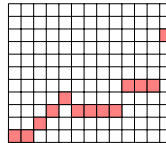
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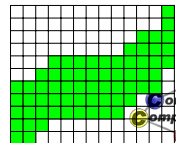
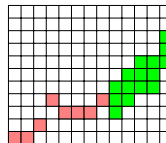
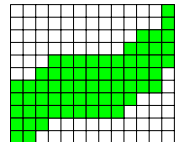
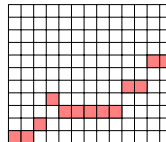
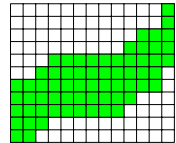
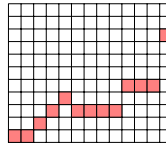
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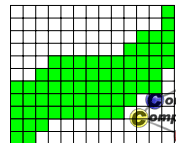
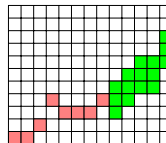
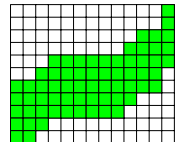
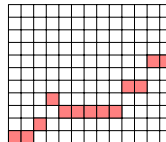
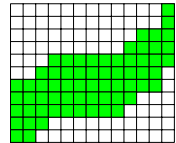
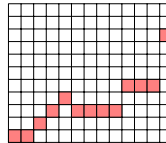
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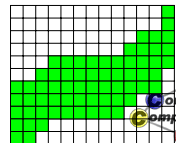
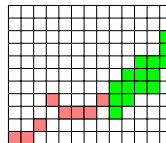
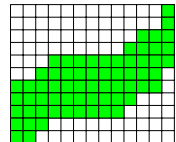
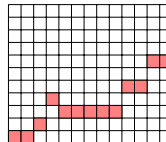
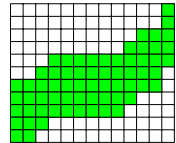
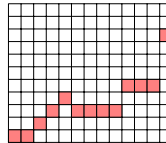
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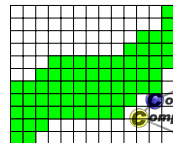
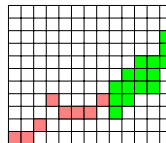
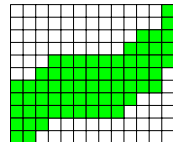
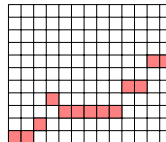
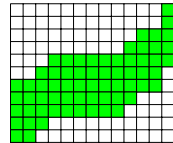
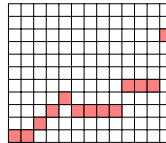
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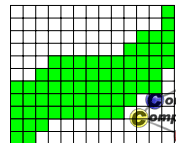
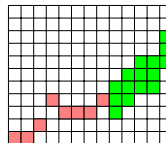
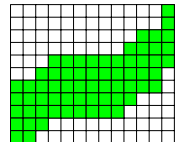
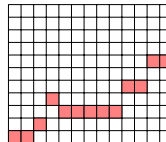
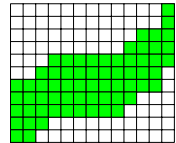
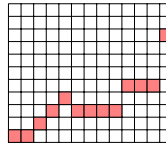
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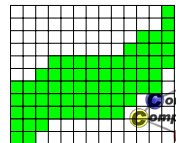
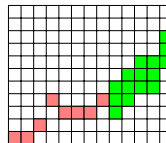
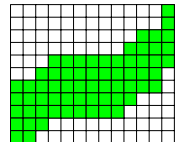
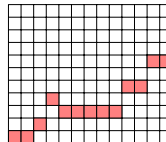
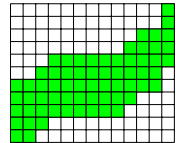
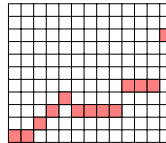
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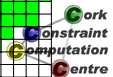
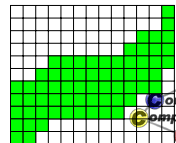
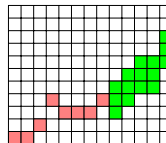
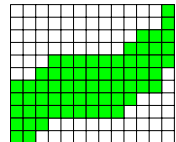
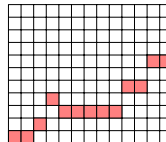
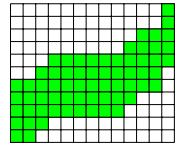
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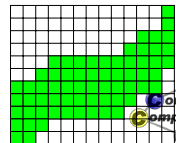
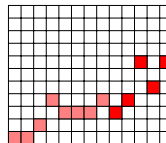
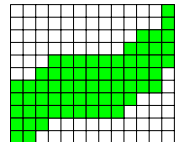
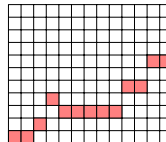
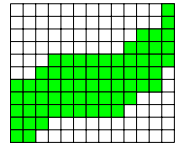
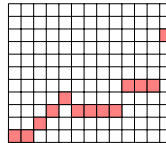


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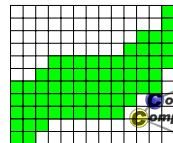
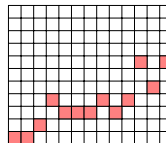
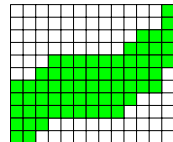
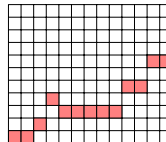
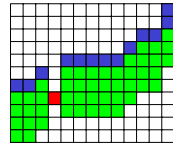
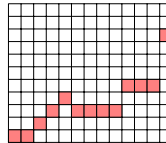
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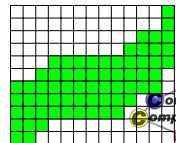
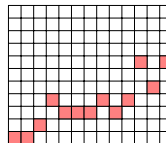
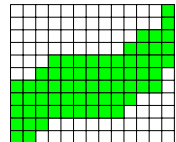
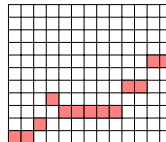
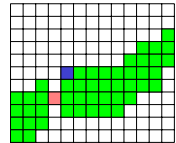
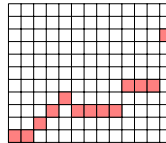
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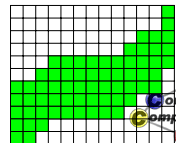
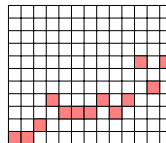
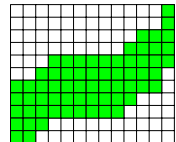
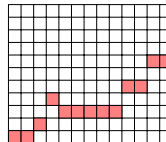
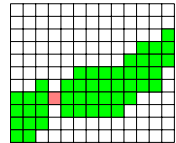
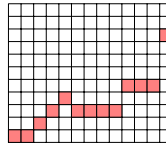
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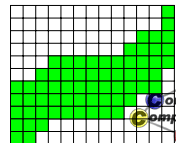
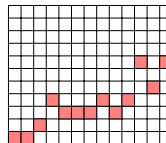
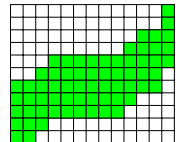
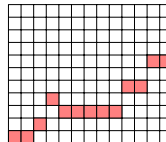
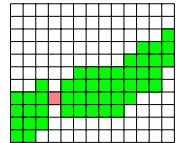
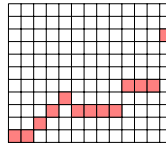
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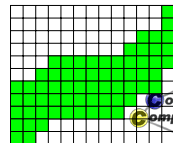
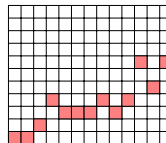
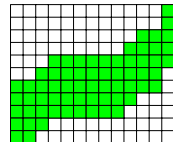
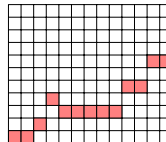
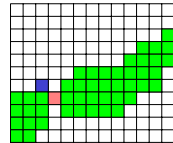




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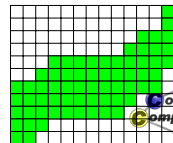
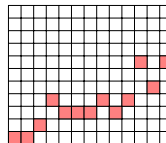
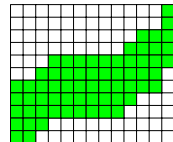
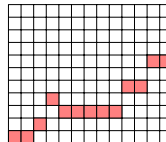
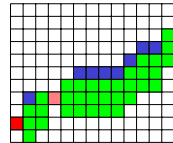
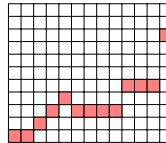
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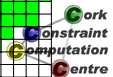
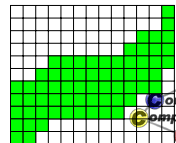
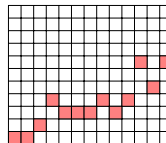
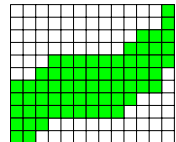
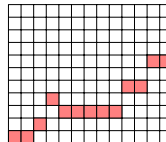
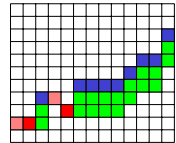
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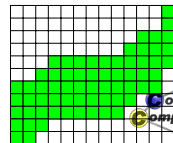
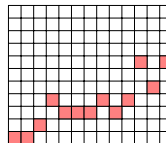
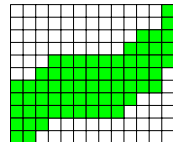
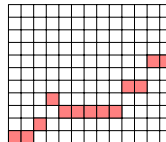
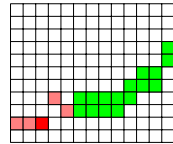
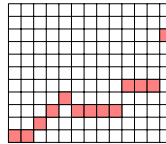
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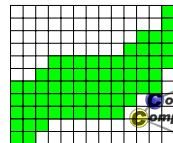
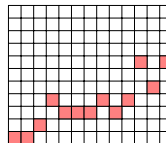
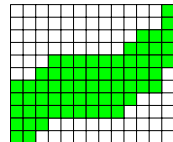
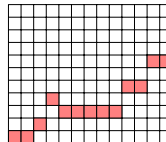
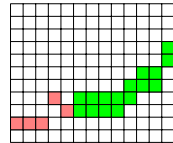
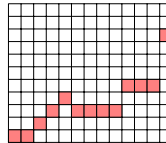
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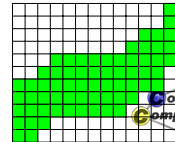
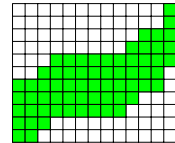
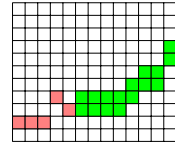
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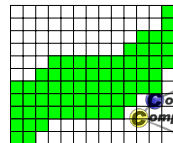
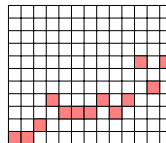
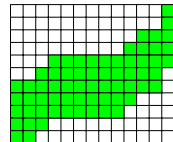
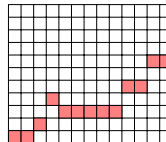
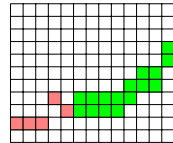
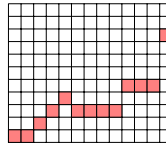
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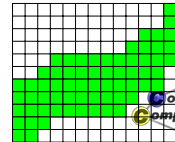
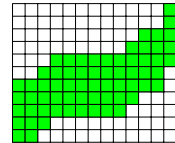
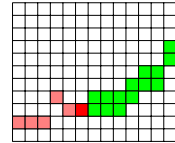
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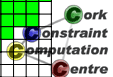
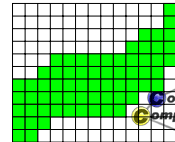
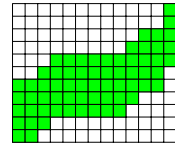
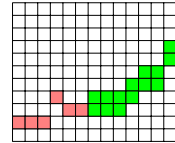




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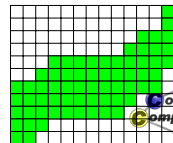
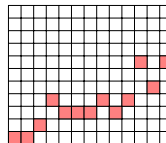
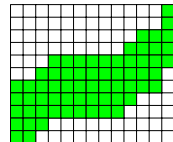
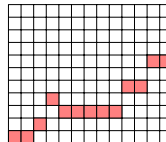
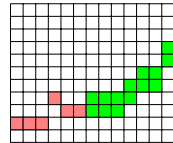
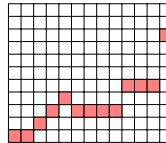
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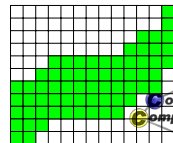
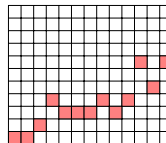
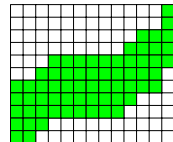
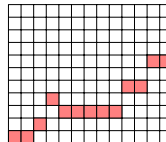
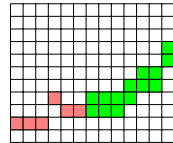
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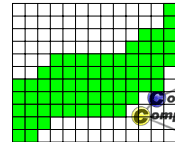
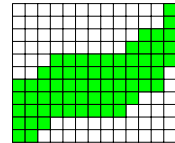
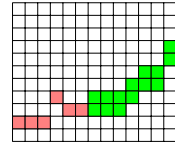
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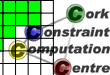
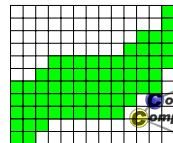
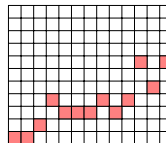
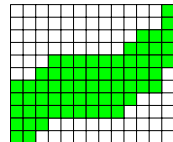
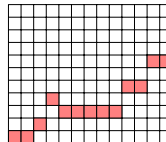
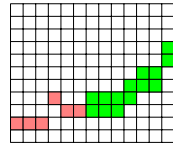
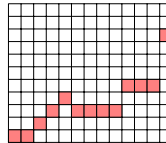
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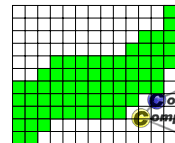
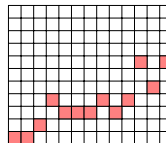
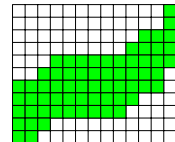
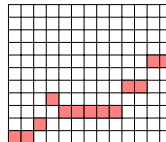
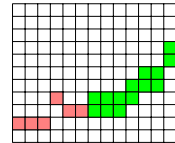
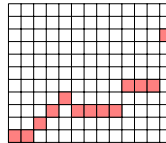
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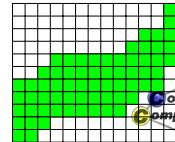
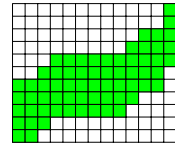
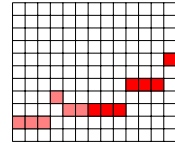
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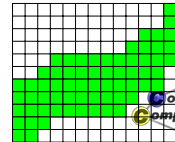
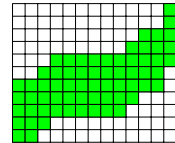
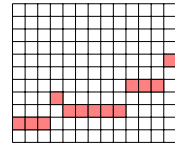
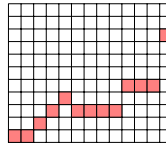
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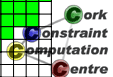
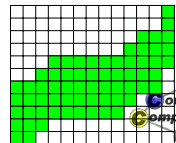
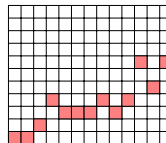
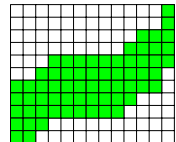
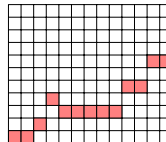
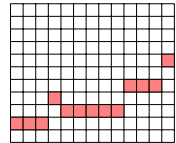




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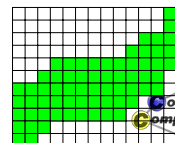
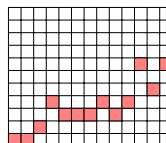
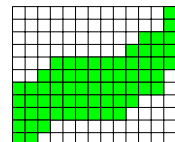
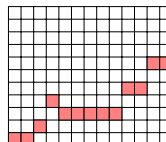
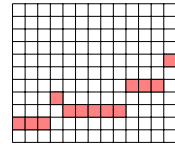
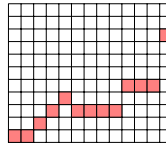
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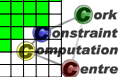
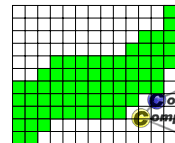
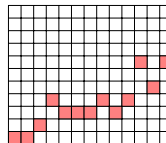
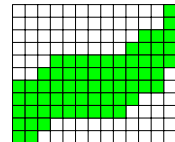
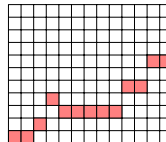
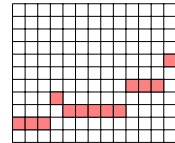
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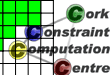
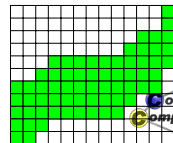
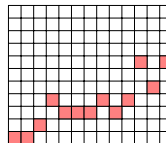
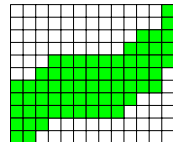
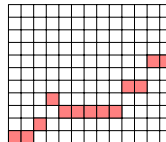
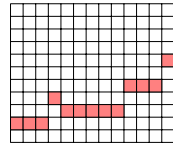
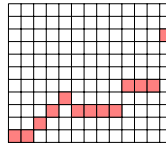
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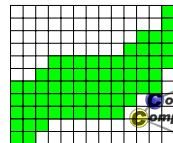
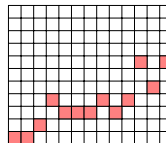
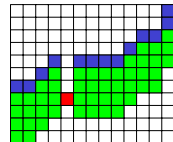
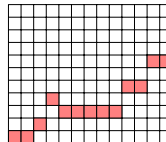
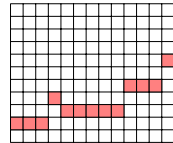
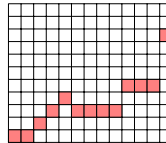
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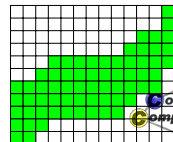
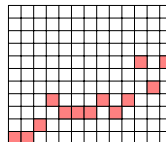
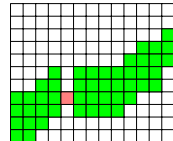
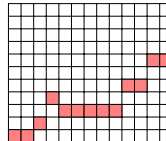
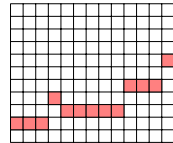
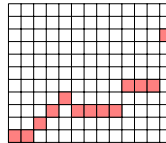
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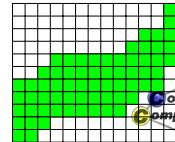
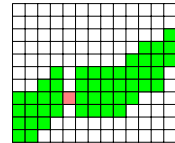
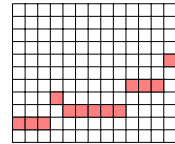
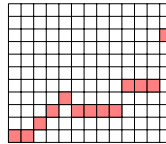
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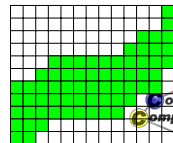
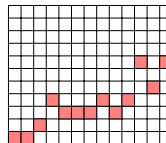
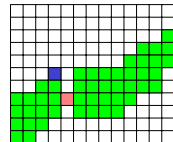
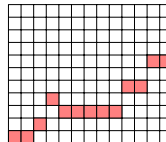
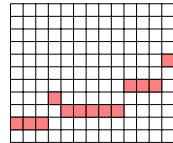
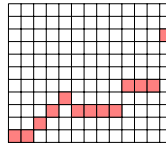
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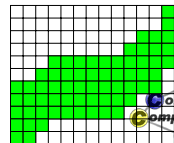
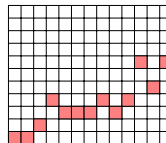
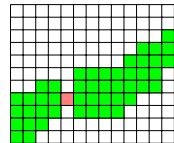
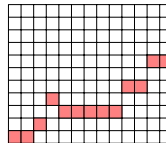
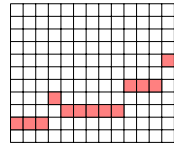
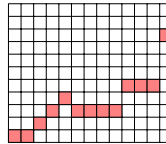




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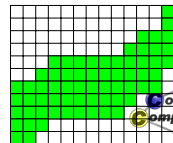
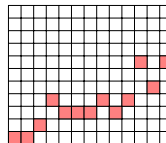
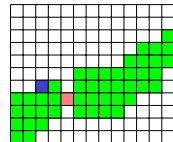
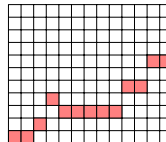
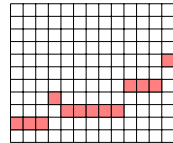
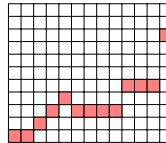
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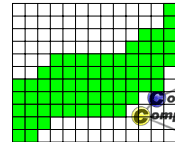
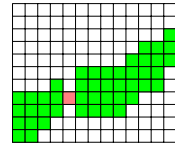
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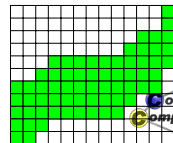
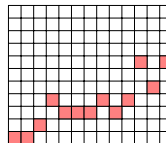
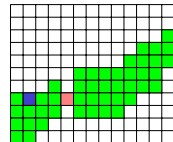
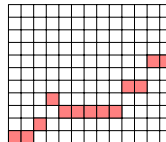
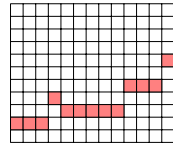
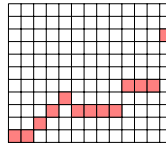
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# Layered with Credit Search



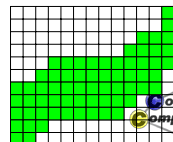
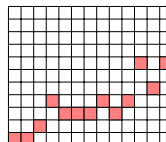
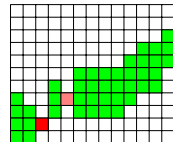
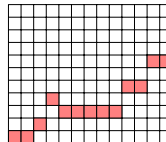
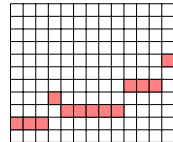
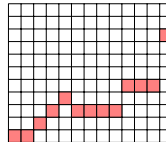
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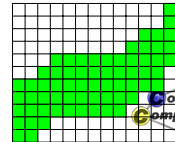
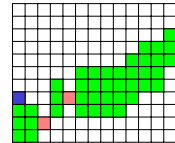
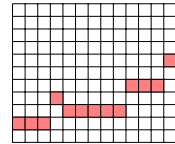
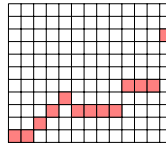
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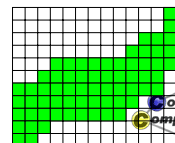
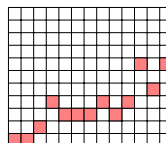
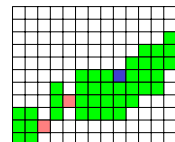
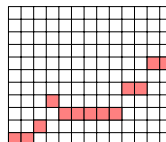
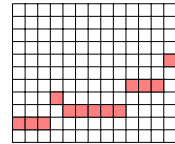
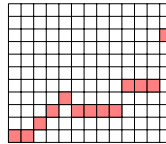
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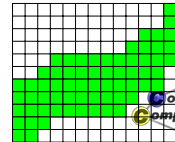
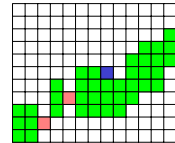
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# Layered with Credit Search



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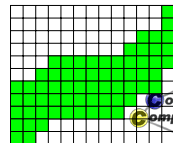
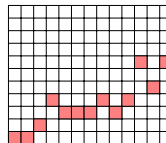
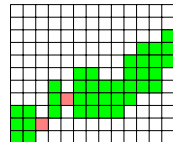
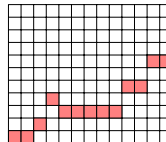
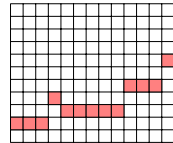




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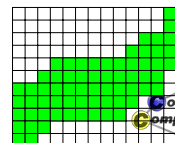
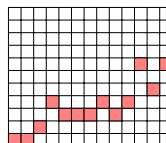
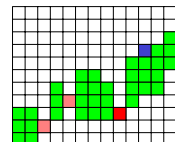
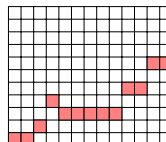
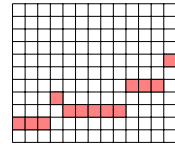
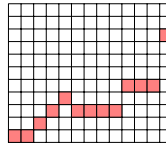
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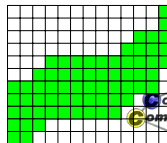
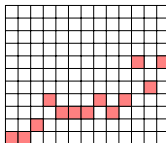
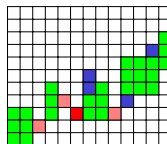
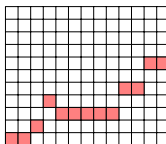
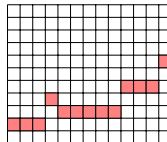
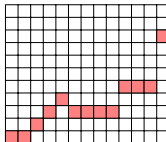
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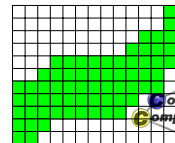
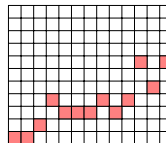
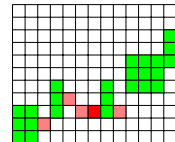
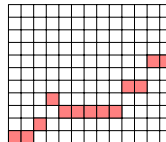
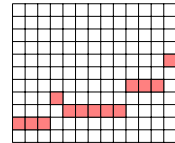
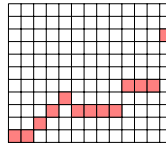
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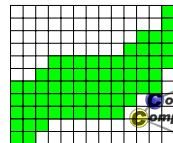
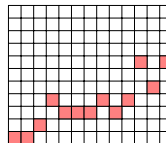
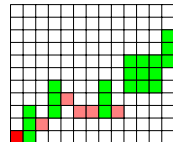
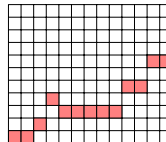
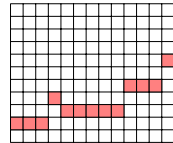
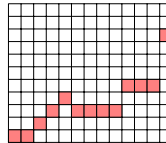
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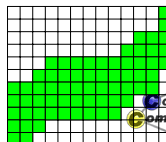
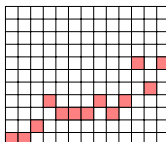
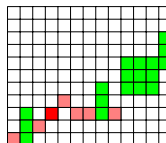
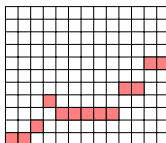
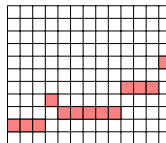
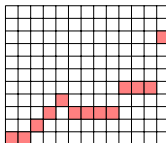
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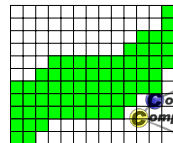
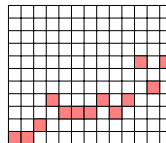
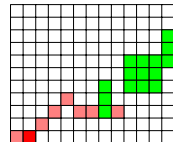
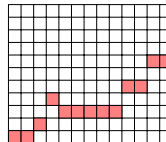
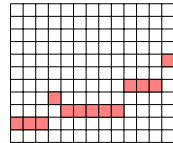
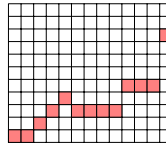
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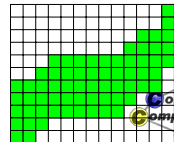
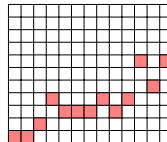
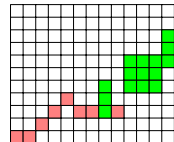
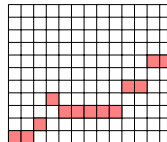
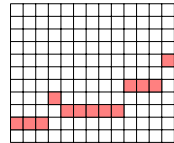
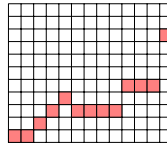


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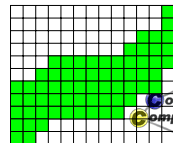
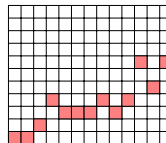
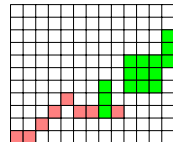
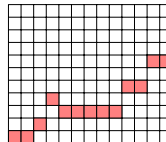
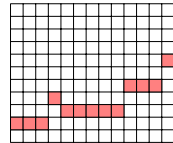




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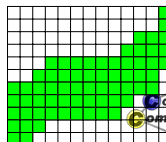
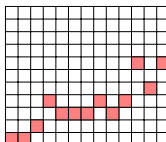
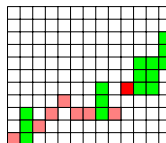
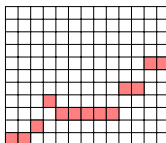
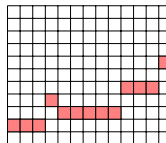
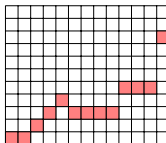
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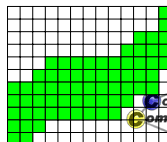
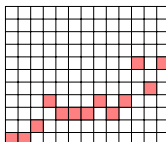
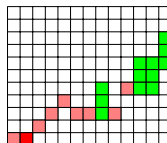
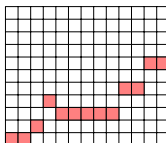
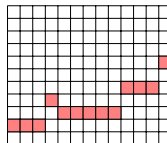
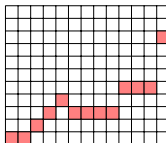
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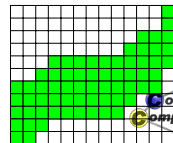
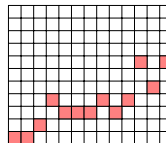
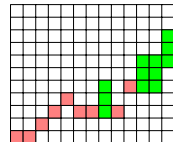
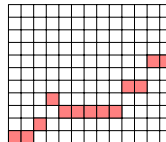
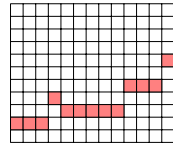
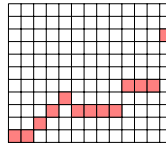
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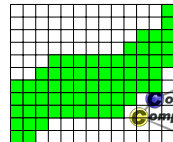
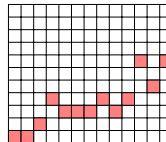
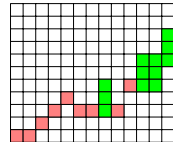
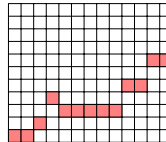
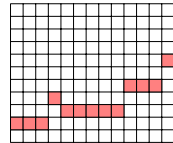
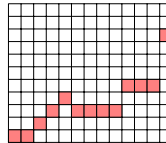
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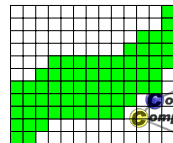
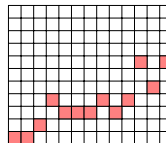
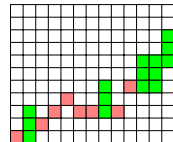
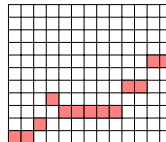
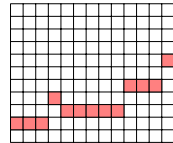
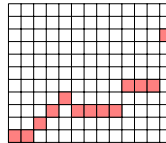
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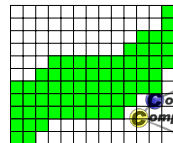
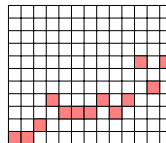
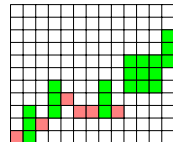
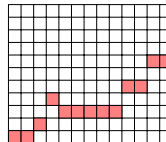
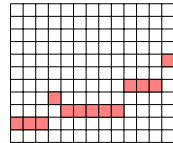
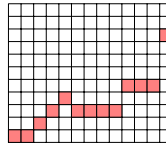
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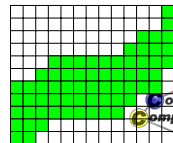
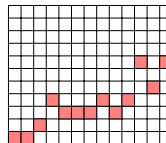
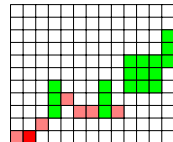
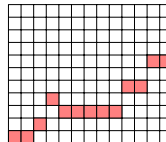
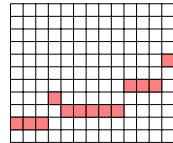
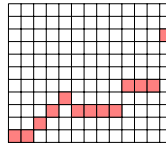
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# Layered with Credit Search



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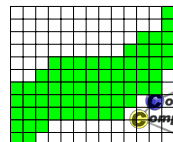
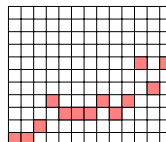
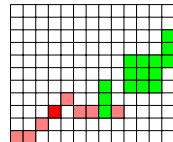
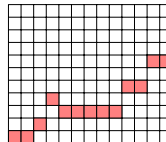
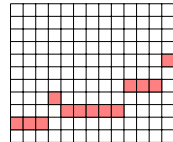
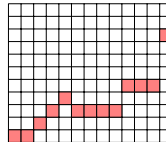




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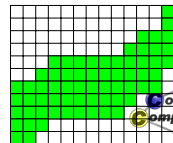
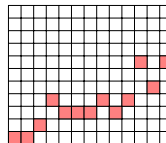
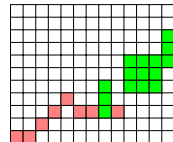
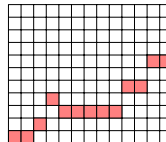
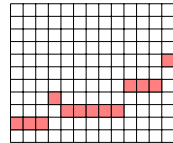
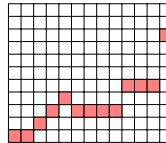
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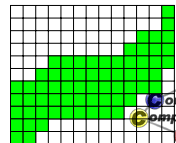
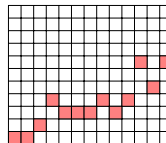
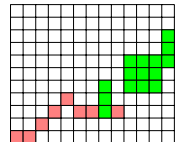
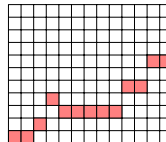
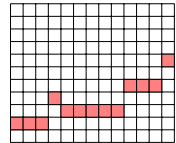
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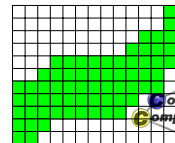
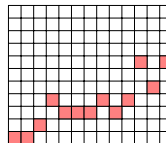
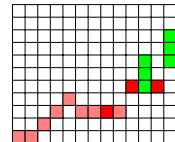
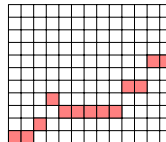
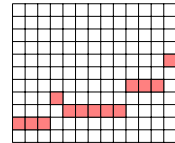
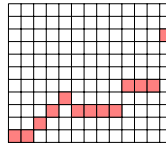
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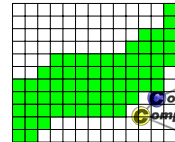
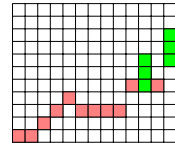
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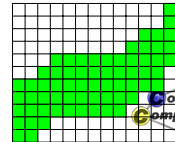
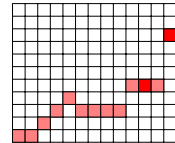
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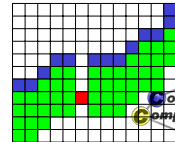
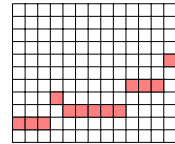
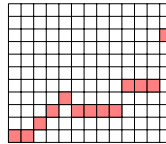
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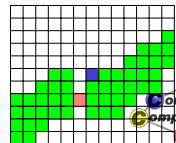
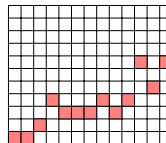
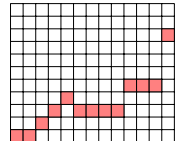
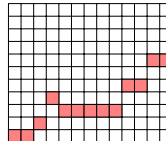
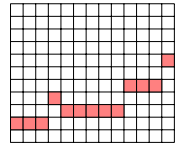
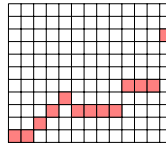
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# Layered with Credit Search



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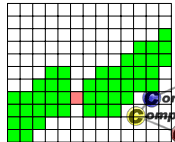
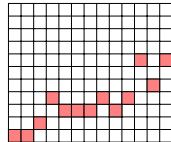
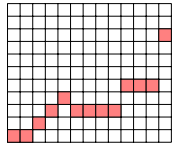
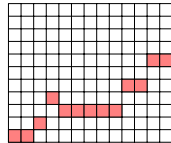
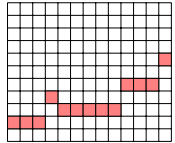
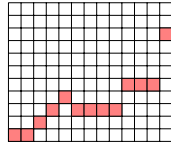




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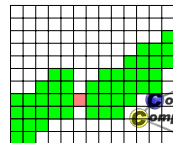
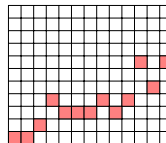
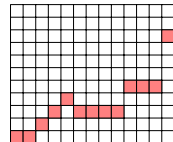
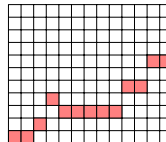
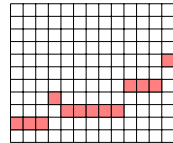
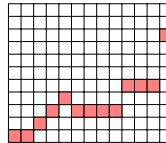
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# Layered with Credit Search



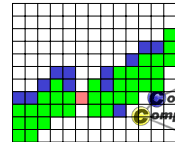
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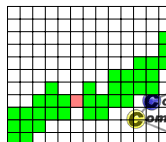
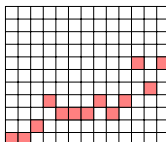
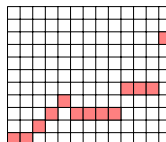
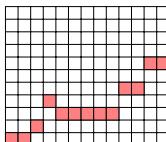
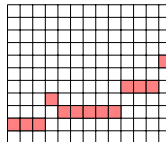
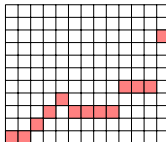
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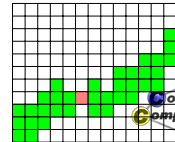
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# Layered with Credit Search



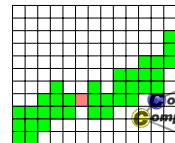
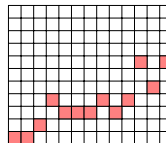
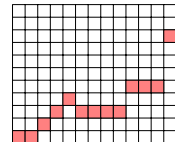
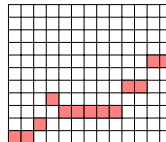
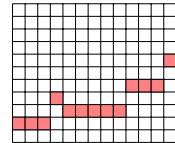
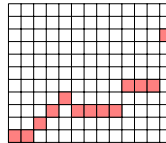
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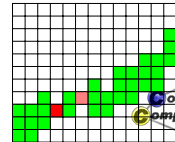
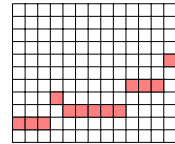
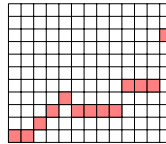
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# Layered with Credit Search



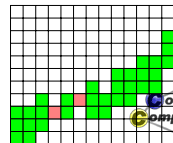
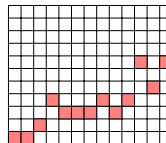
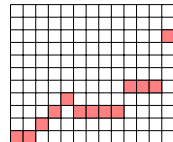
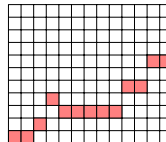
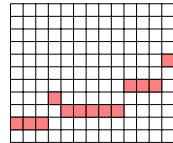
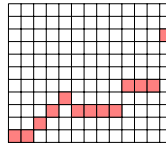
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# Layered with Credit Search



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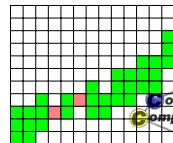
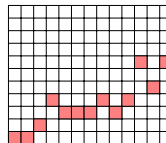
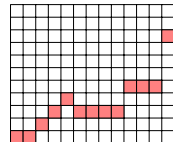
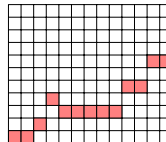
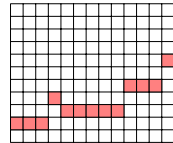




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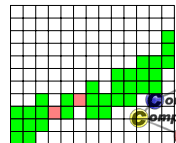
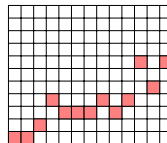
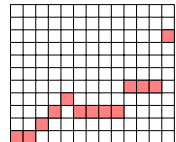
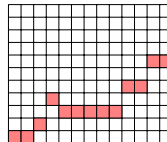
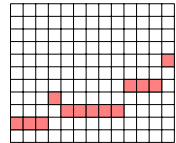
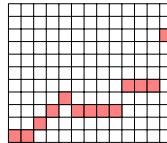
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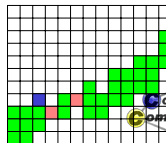
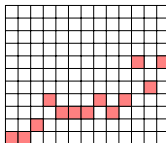
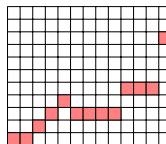
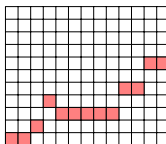
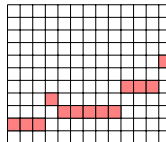
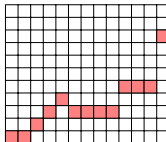
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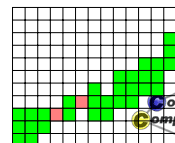
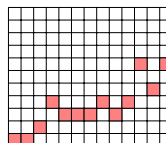
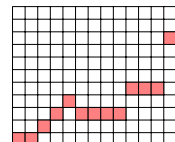
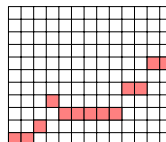
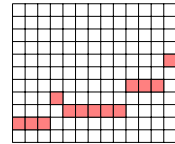
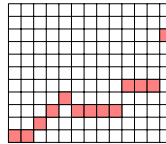
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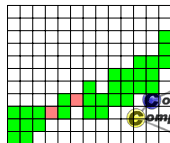
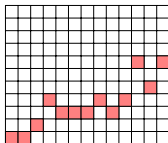
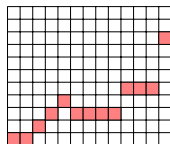
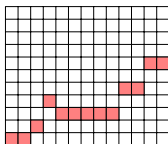
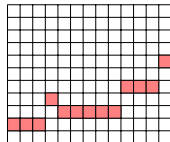
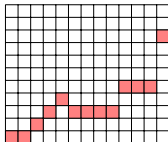
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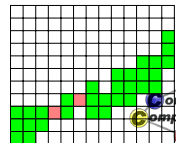
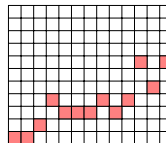
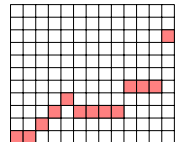
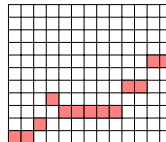
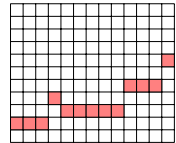
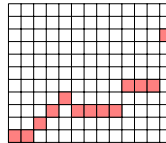
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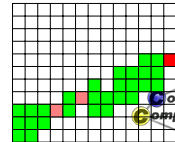
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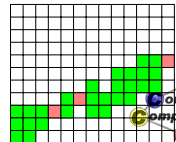
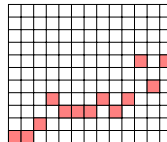
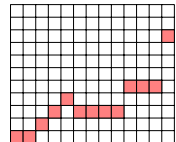
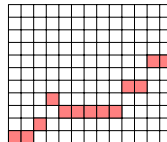
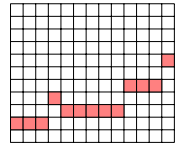
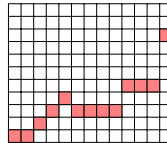
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# Layered with Credit Search



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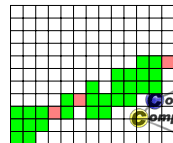
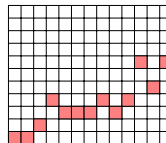
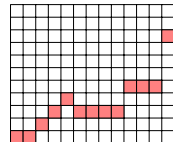
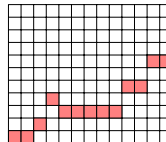
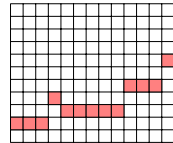




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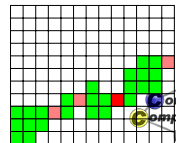
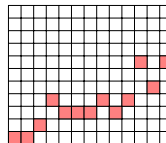
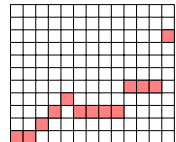
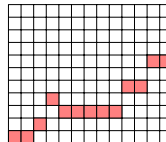
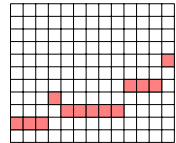
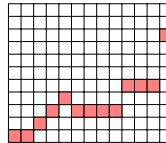
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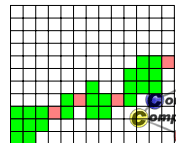
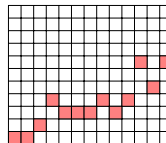
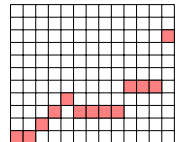
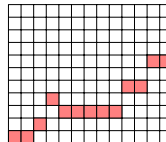
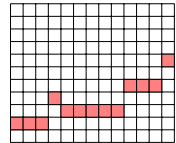
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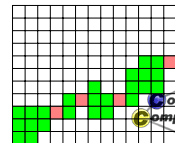
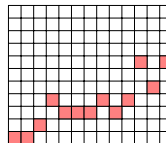
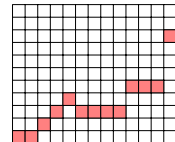
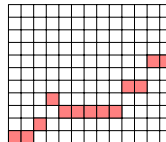
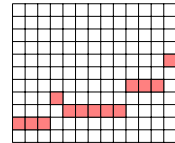
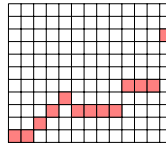
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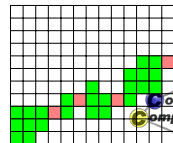
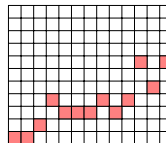
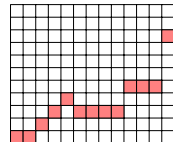
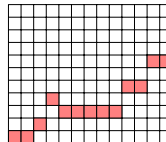
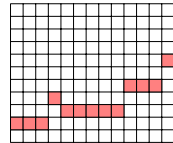
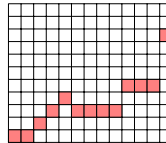
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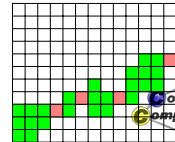
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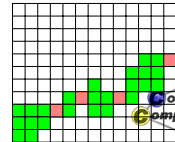
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# Layered with Credit Search



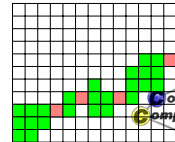
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# Layered with Credit Search



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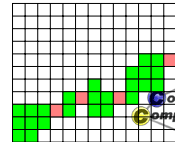




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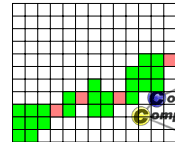
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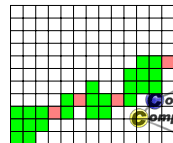
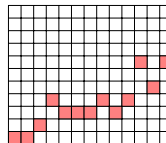
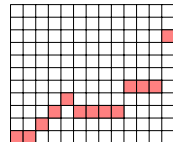
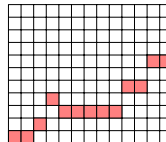
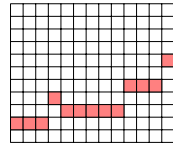
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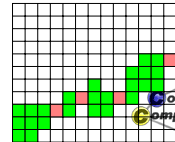
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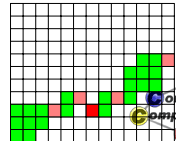
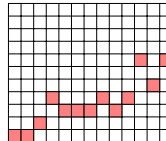
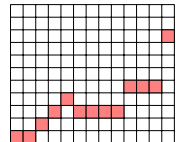
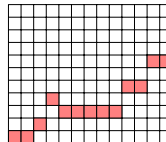
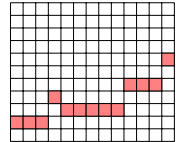
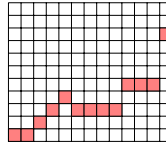
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# Layered with Credit Search



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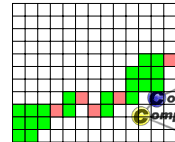


Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search



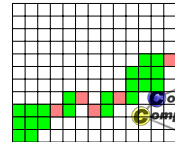
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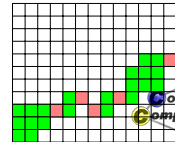
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# Layered with Credit Search



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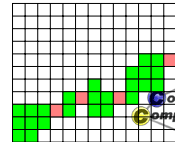




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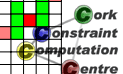
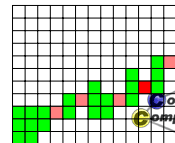
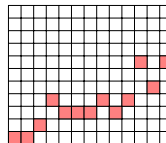
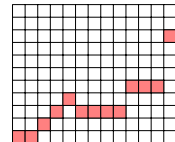
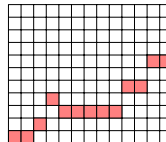
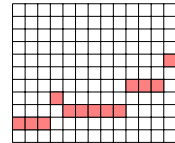
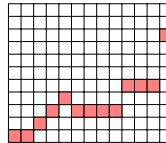
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# Layered with Credit Search



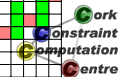
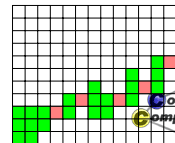
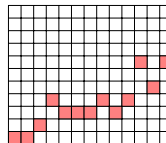
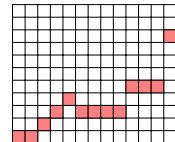
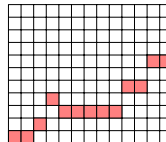
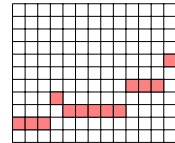
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# Layered with Credit Search



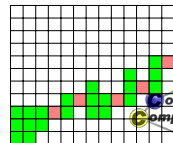
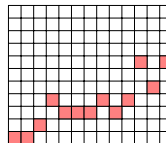
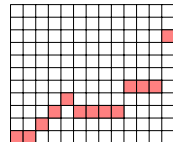
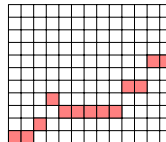
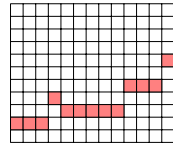
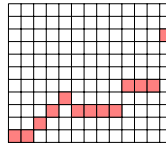
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# Layered with Credit Search



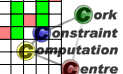
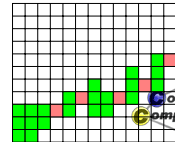
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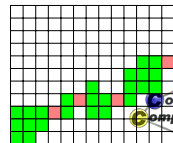
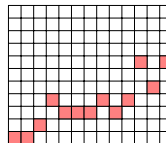
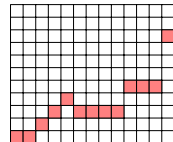
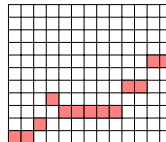
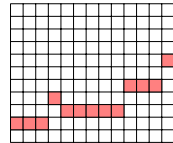
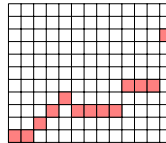
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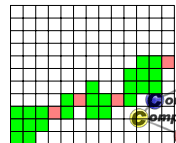
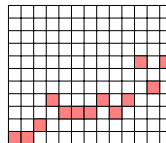
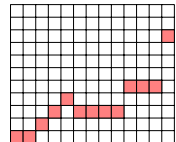
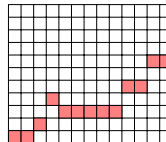
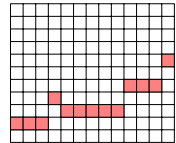
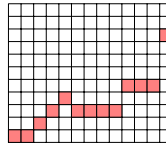
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# Layered with Credit Search



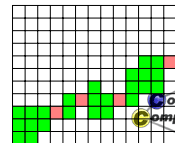
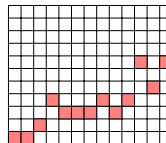
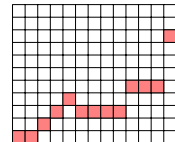
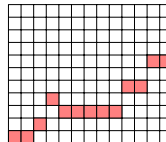
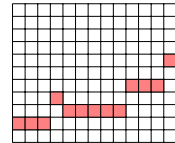
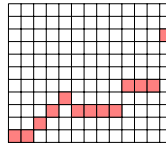
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# Layered with Credit Search



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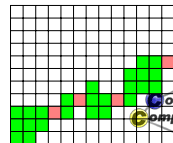
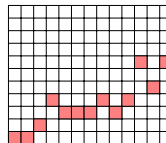
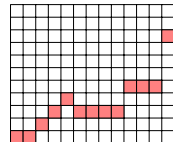
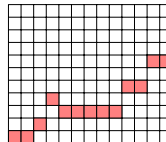
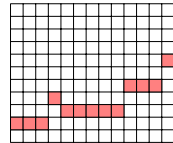




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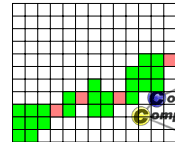
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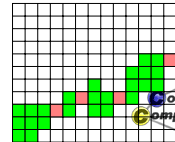
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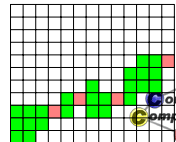
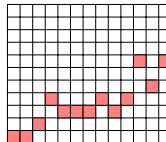
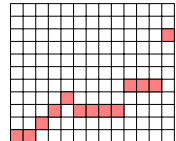
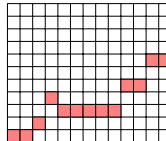
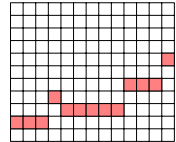
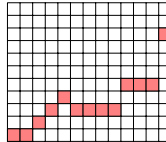
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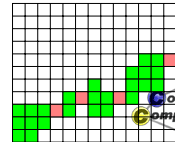
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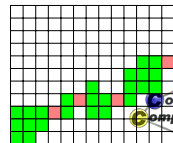
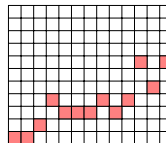
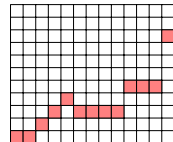
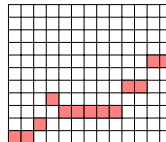
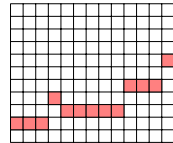
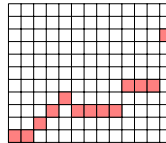
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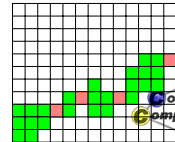
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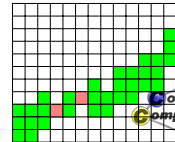
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# Layered with Credit Search



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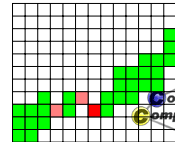




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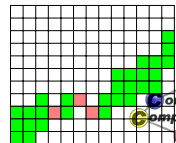
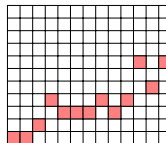
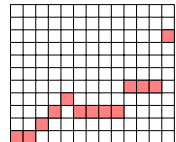
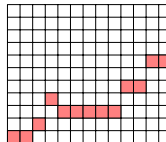
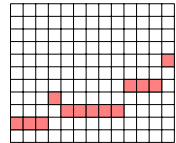
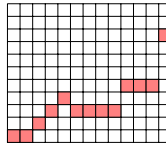
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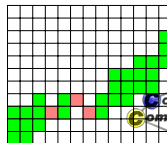
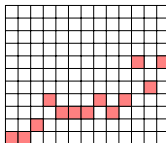
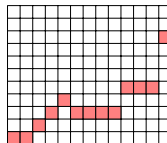
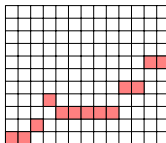
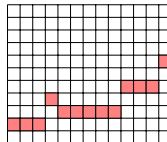
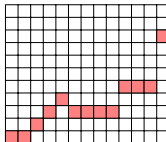
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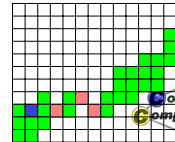
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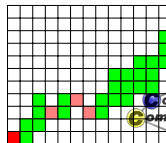
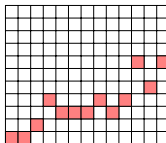
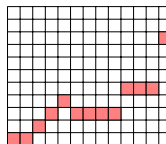
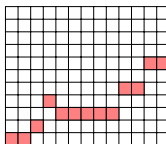
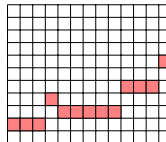
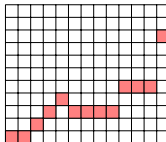
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# Layered with Credit Search



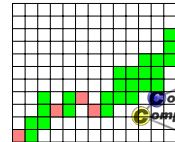
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# Layered with Credit Search



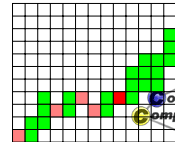
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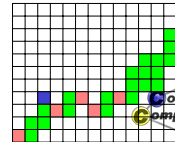
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# Layered with Credit Search



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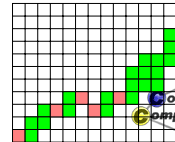




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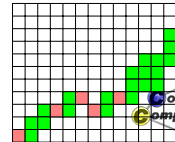
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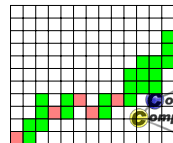
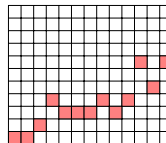
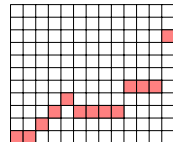
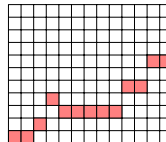
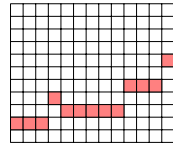
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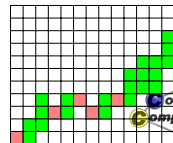
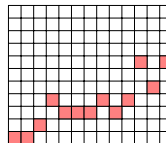
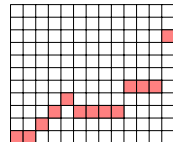
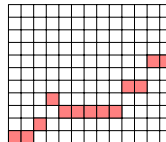
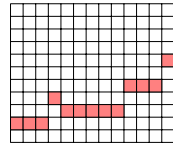
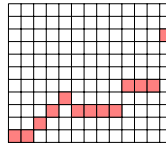
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# Layered with Credit Search



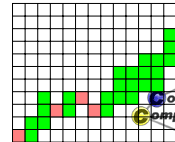
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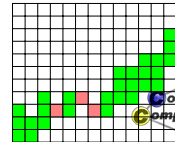
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# Layered with Credit Search



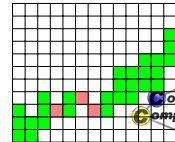
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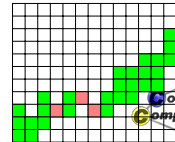
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# Layered with Credit Search



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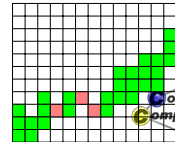




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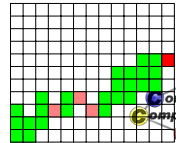
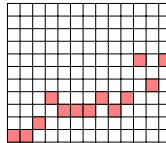
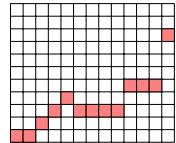
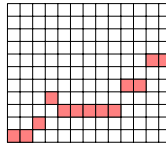
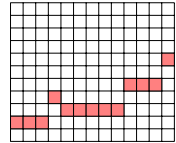
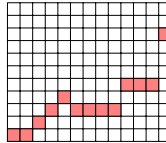
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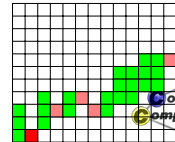
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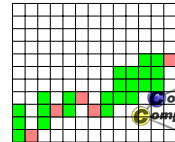
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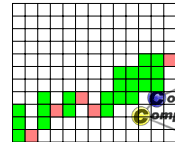
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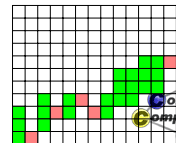
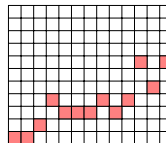
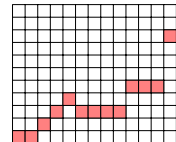
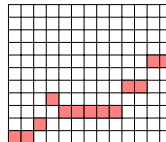
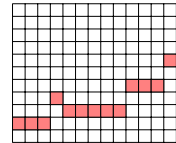
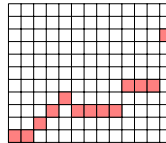
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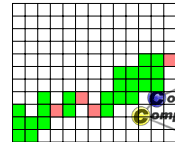
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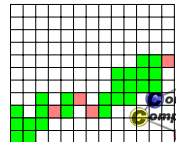
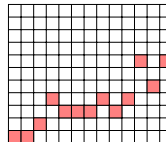
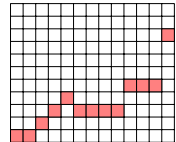
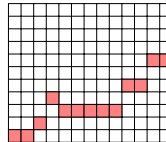
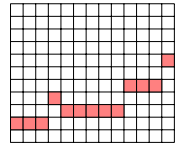
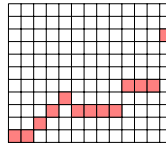
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# Layered with Credit Search



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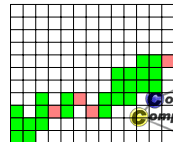
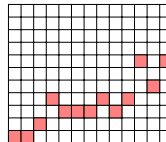
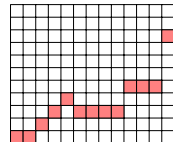
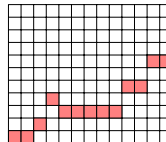
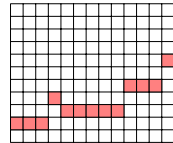




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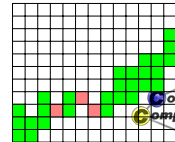
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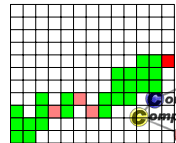
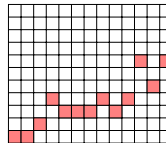
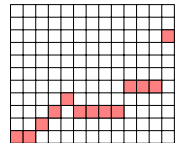
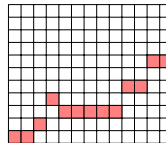
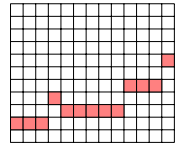
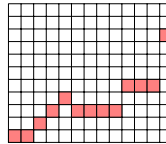
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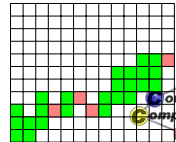
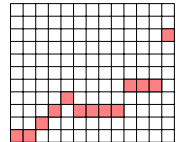
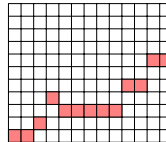
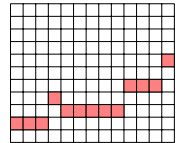
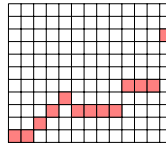
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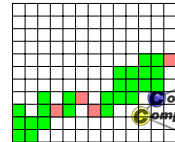
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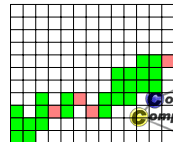
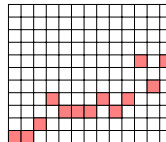
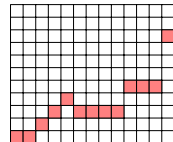
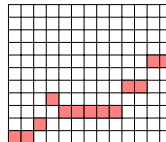
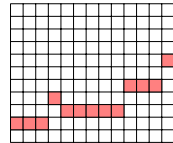
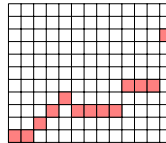
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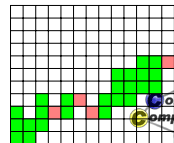
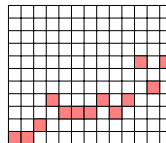
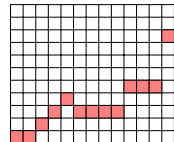
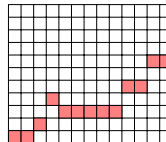
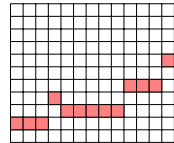
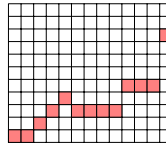
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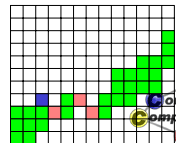
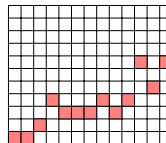
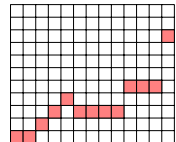
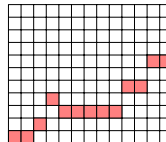
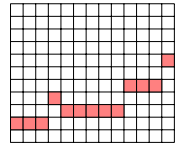
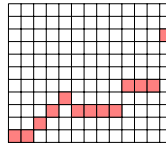
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# Layered with Credit Search



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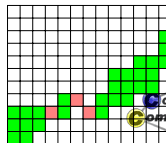
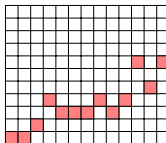
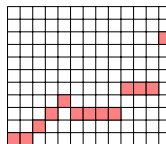
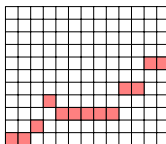
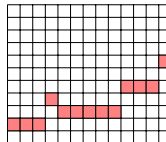
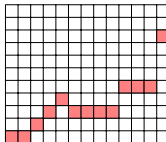




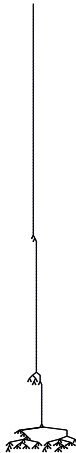
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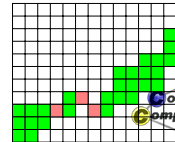
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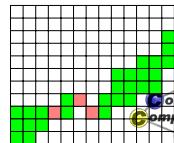
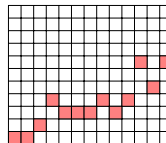
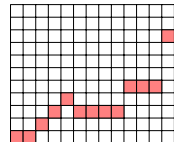
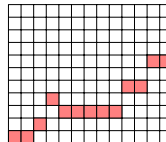
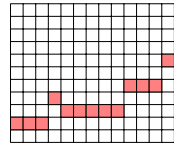
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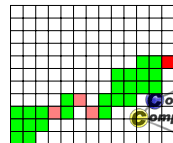
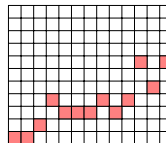
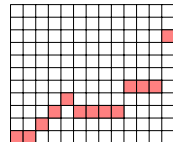
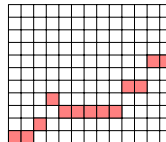
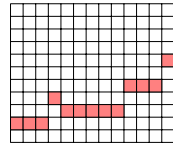
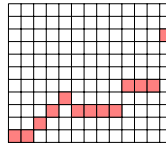
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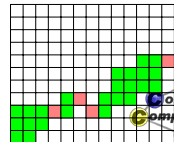
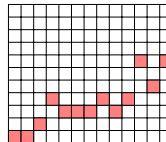
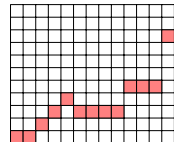
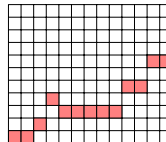
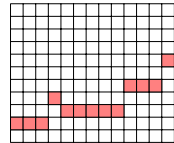
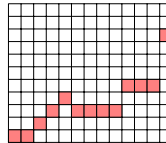
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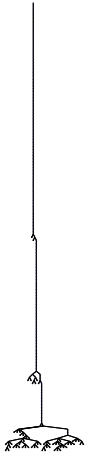
# Layered with Credit Search



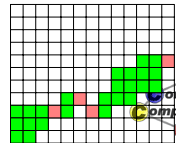
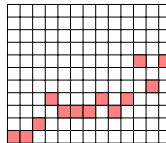
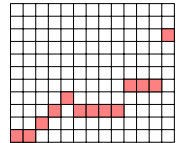
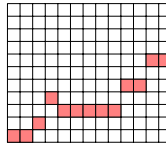
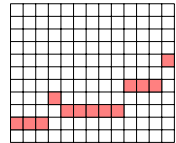
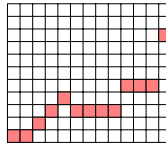
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8	6	7	3	10	-
8	7	9	6	1	13
9	8	1	10	2	3
1	3	10	11	7	-
4	2	8	11	6	-
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9	10	4	12	1	2
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11	12	10	7	8	-
11	13	12	9	10	3
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# Layered with Credit Search

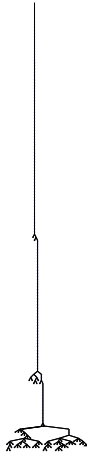


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3	9	6	1	2	4
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7	6	8	2	9	-
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8	7	9	6	1	13
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11	12	10	7	6	-
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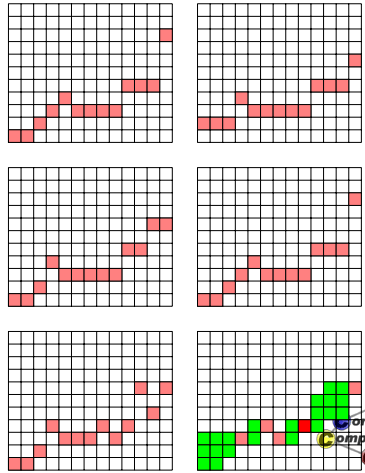


◀ Back to Start    ▶ Skip Animation

# Layered with Credit Search

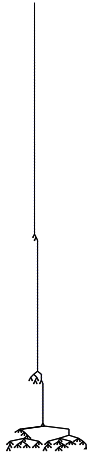


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11	12	10	7	6	-
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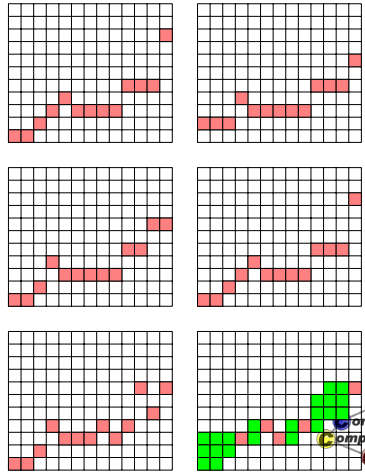


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
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2	8	5	9	1	4
3	9	6	1	2	4
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8	7	9	8	1	13
9	8	1	12	2	3
1	3	10	16	7	2
4	2	8	16	6	2
5	9	12	10	11	1
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9	10	4	12	1	2
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10	12	9	5	11	2
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11	12	10	7	6	1
11	13	12	9	10	3
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13	11	10	9	12	-

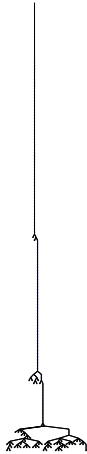


◀ Back to Start   ▶ Skip Animation

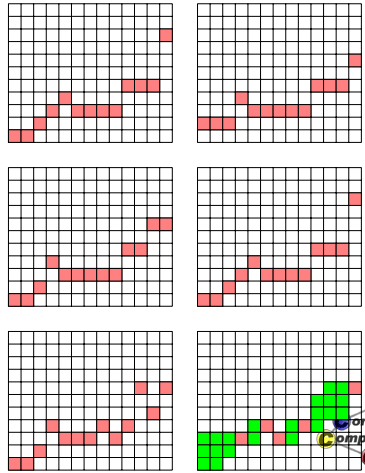
Cork  
Constraint  
Computation  
Centre



# Layered with Credit Search



1	2	3	4	5	6
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	-
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11	10	13	6	12	5
11	12	10	7	6	11
11	13	12	9	10	3
12	10	9	7	13	-
12	11	13	8	2	-
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13	11	10	9	12	-



◀ Back to Start   ▶ Skip Animation

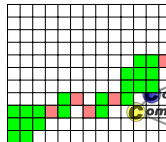
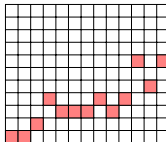
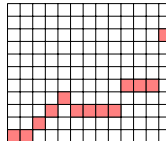
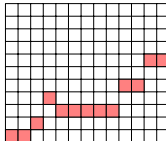
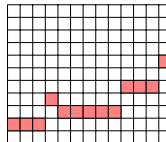
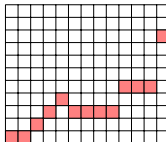
Cork  
 Constraint  
 Computation  
 Centre



# Layered with Credit Search



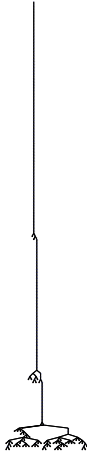
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11	12	10	7	6	11
11	13	12	9	10	3
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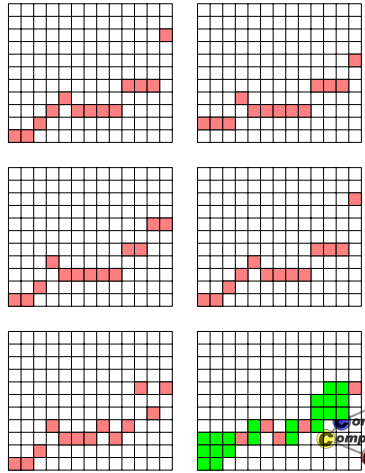
◀ Back to Start    ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search

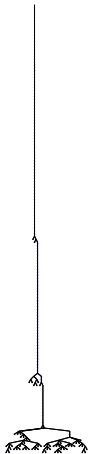


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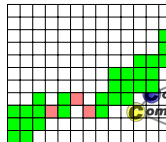
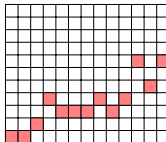
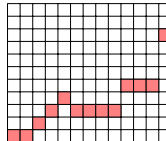
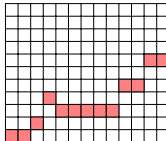
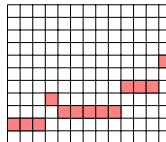
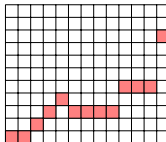


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



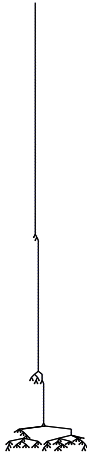
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8	7	9	8	1	11
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10	12	9	5	11	2
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11	12	10	7	6	11
11	13	12	9	10	5
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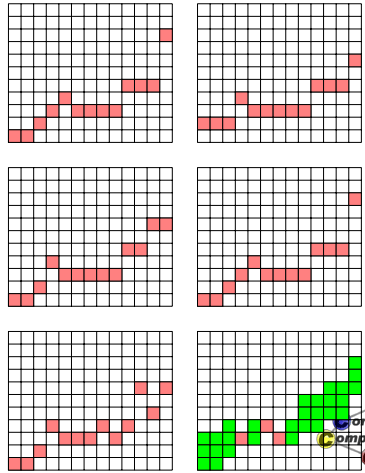
◀ Back to Start   ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search

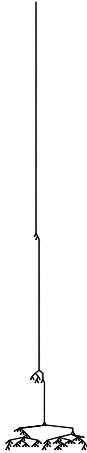


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11	12	10	7	6	11
11	13	12	9	10	8
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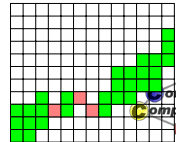
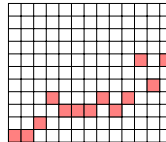
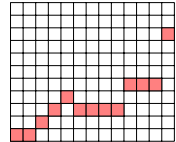
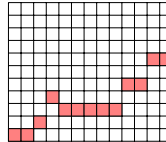
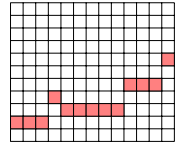
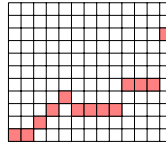


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



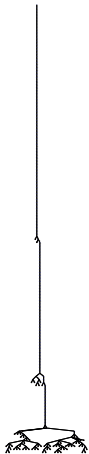
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11	12	10	7	6	1
11	13	12	9	10	1
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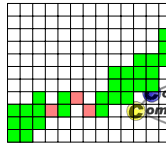
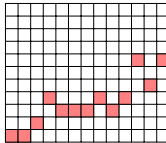
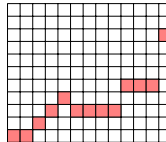
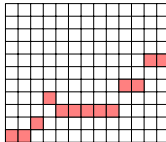
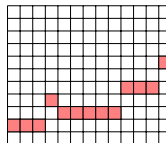
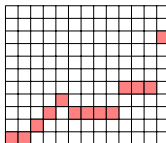
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search



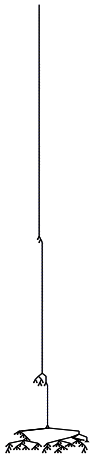
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12	10	9	7	13	1
12	11	13	8	2	1
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13	11	10	9	12	1



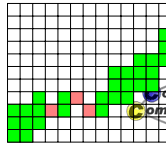
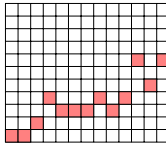
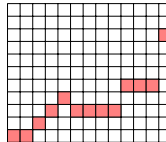
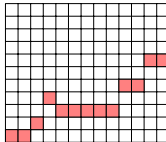
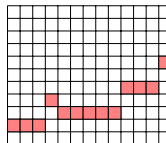
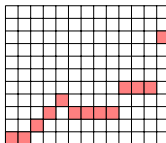
◀ Back to Start   ▶ Skip Animation



# Layered with Credit Search



1	2	3	4	5	6
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	12
7	6	8	2	9	11
8	6	7	3	10	1
8	7	9	8	1	11
9	8	1	18	2	3
1	3	10	10	7	12
4	2	8	16	6	11
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	11
10	12	9	5	11	2
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11	12	10	7	6	11
11	13	12	9	10	11
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13	11	10	9	12	11

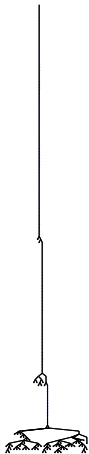


◀ Back to Start   ▶ Skip Animation

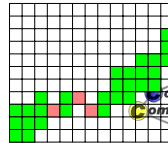
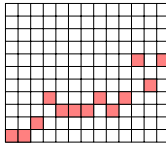
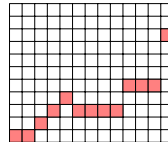
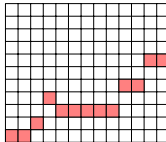
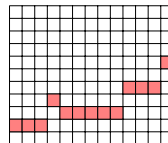
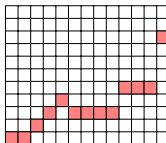
Cork  
Constraint  
Computation  
Centre



# Layered with Credit Search



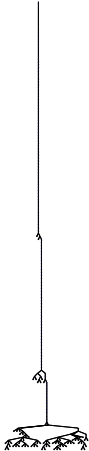
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3	9	6	1	2	4
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6	7	5	12	3	11
7	5	6	13	8	7
7	6	8	2	9	3
8	6	7	3	10	1
8	7	9	8	1	4
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
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9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	2
10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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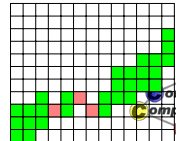
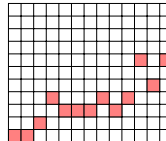
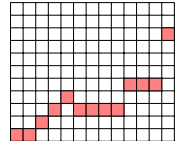
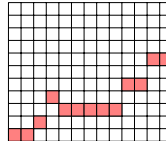
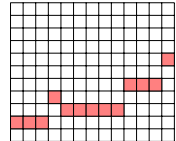
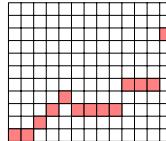
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

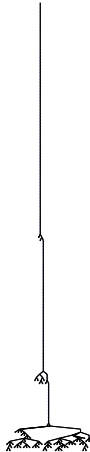
# Layered with Credit Search



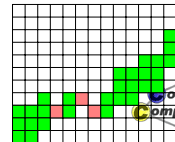
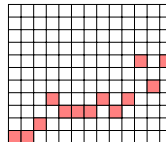
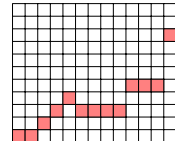
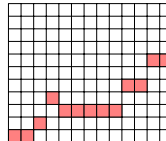
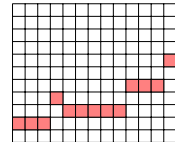
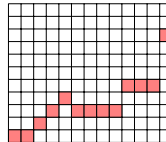
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8	7	9	8	1	4
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
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9	10	4	12	1	2
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10	11	12	7	4	2
10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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# Layered with Credit Search

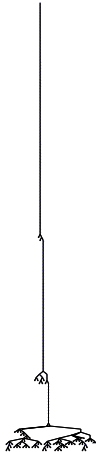


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4	1	2	3	7	9
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6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	12
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8	7	9	8	1	4
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
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10	9	11	8	12	7
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11	12	10	7	6	2
11	13	12	9	10	2
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13	11	10	9	12	2

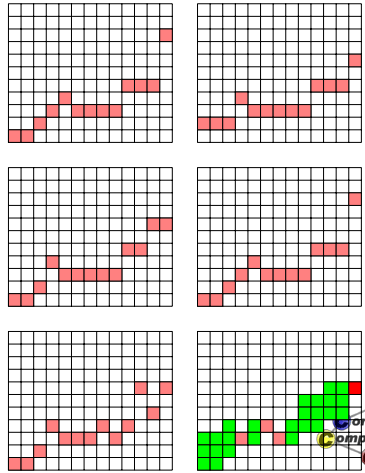


◀ Back to Start    ▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
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2	8	5	9	1	4
3	9	6	1	2	4
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8	7	9	8	1	11
9	8	1	18	2	3
1	3	10	10	7	11
4	2	8	16	6	11
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
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10	12	9	5	11	2
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11	12	10	7	6	11
11	13	12	9	10	11
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12	13	11	6	8	11
13	11	10	9	12	11



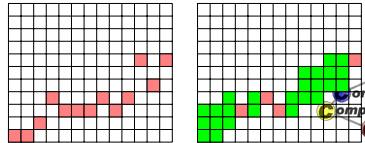
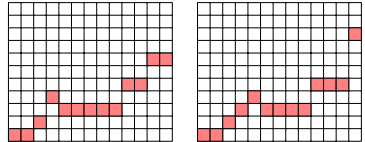
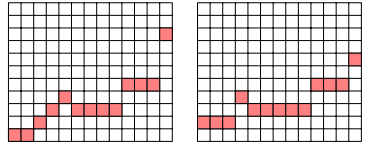
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



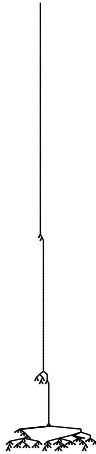
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3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	13
8	6	7	3	10	1
8	7	9	8	1	3
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	2
10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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13	11	10	9	12	2



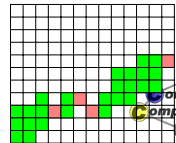
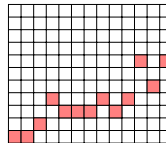
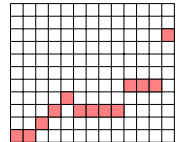
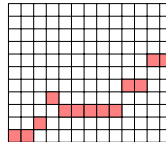
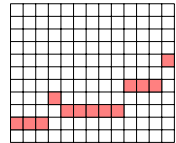
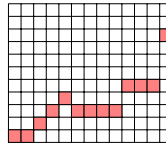
◀ Back to Start   ▶ Skip Animation



# Layered with Credit Search



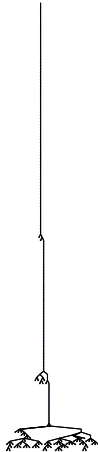
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3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	13
8	6	7	3	10	1
8	7	9	8	1	10
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	2
10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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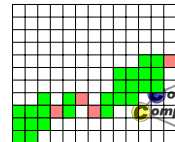
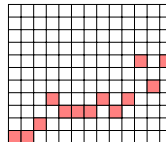
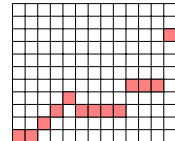
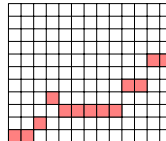
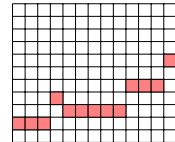
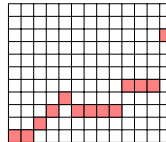
◀ Back to Start   ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search



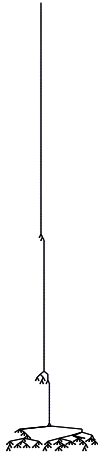
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3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	13
8	6	7	3	10	1
8	7	9	8	1	12
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	2
10	12	9	5	11	2
11	10	13	6	12	2
11	12	10	7	6	2
11	13	12	9	10	2
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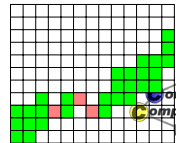
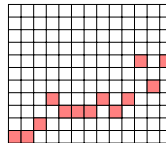
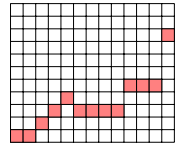
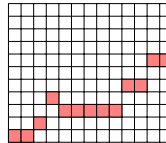
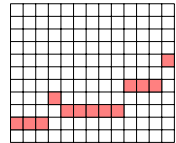
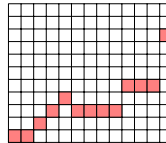
◀ Back to Start    ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search



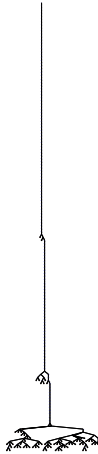
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6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	1
8	6	7	3	10	2
8	7	9	8	1	1
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	1
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11	12	10	7	6	1
11	13	12	9	10	1
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13	11	10	9	12	1



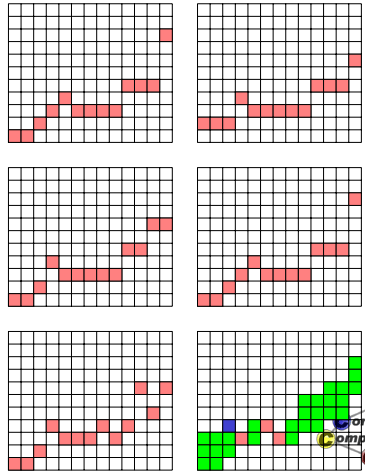
◀ Back to Start   ▶ Skip Animation



# Layered with Credit Search



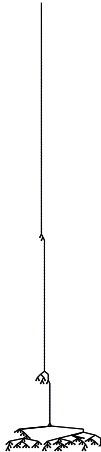
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3	9	6	1	2	4
6	5	7	8	9	1
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	1
8	6	7	3	10	2
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11	12	10	7	6	1
11	13	12	9	10	3
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13	11	10	9	12	1



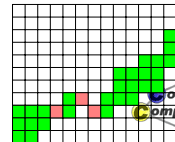
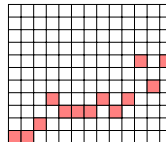
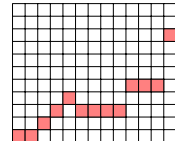
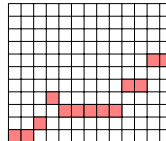
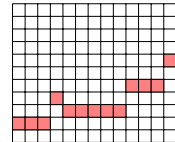
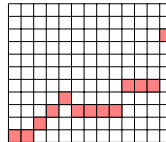
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search

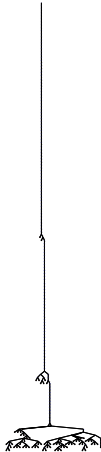


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3	9	6	1	2	4
6	5	7	8	9	1
6	7	5	12	3	11
7	5	6	13	6	1
7	6	8	2	9	1
8	6	7	3	10	2
8	7	9	8	1	1
9	8	1	10	2	3
1	3	10	10	7	1
4	2	8	10	6	1
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	1
10	12	9	5	11	2
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11	12	10	7	6	1
11	13	12	9	10	3
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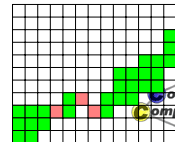
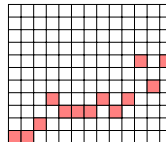
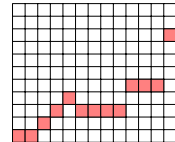
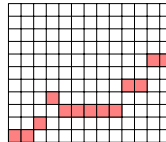
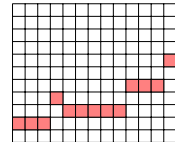
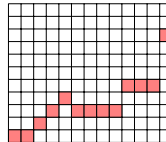


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search

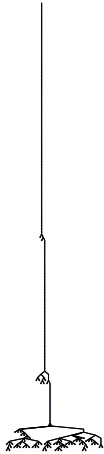


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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	10
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	-
8	6	7	3	10	2
8	7	9	8	1	-
9	8	1	18	2	3
1	3	10	10	7	-
4	2	8	16	6	-
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	-
10	12	9	5	11	2
11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	3
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12	11	13	8	2	-
12	13	11	6	8	-
13	11	10	9	12	-

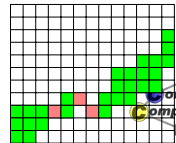
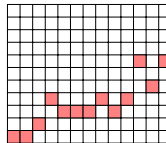
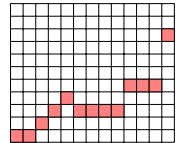
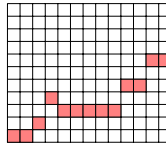
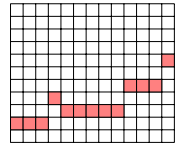
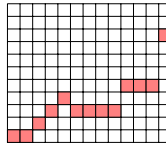


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



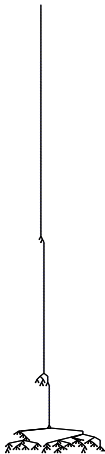
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2	8	5	9	1	4
3	9	6	1	2	1
6	5	7	8	9	12
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	-
8	6	7	3	10	2
8	7	9	8	1	-
9	8	1	13	2	3
1	3	10	10	7	-
4	2	8	13	6	-
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	-
10	12	9	5	11	2
11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	3
12	10	9	7	13	-
12	11	13	8	2	-
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13	11	10	9	12	-



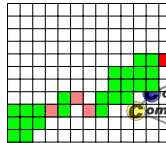
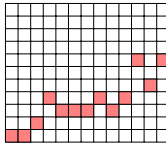
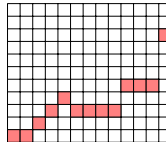
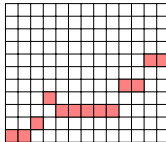
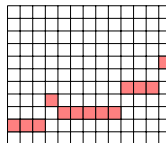
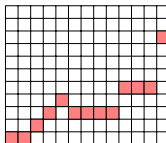
◀ Back to Start    ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search



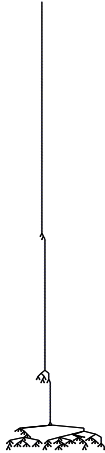
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	13
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	-
8	6	7	3	10	2
8	7	9	8	1	-
9	8	1	18	2	3
1	3	10	10	7	-
4	2	8	16	6	-
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
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11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	3
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12	11	13	8	2	-
12	13	11	6	8	-
13	11	10	9	12	-



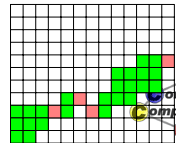
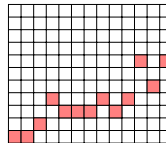
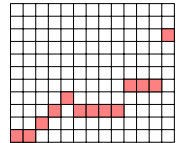
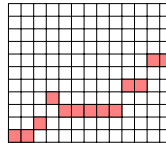
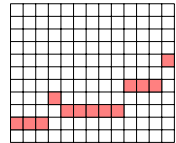
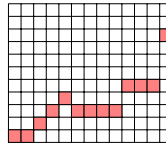
◀ Back to Start

▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	13
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	10
8	6	7	3	10	2
8	7	9	8	1	4
9	8	1	13	2	3
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4	2	8	13	6	3
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	3
10	12	9	5	11	2
11	10	13	6	12	3
11	12	10	7	6	3
11	13	12	9	10	3
12	10	9	7	13	3
12	11	13	8	2	3
12	13	11	6	8	2
13	11	10	9	12	3



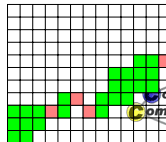
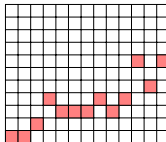
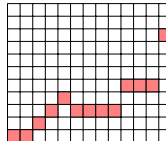
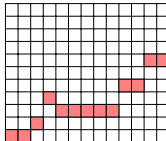
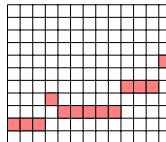
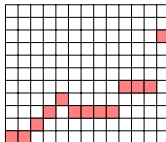
◀ Back to Start   ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search

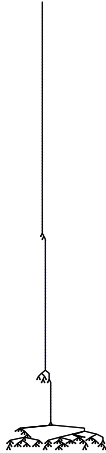


1	2	3	4	5	6
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	13
6	7	5	12	3	11
7	5	6	13	8	1
7	6	8	2	9	12
8	6	7	3	10	2
8	7	9	8	1	4
9	8	1	18	2	3
1	3	10	10	7	1
4	2	8	16	6	1
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11	12	10	7	6	1
11	13	12	9	10	3
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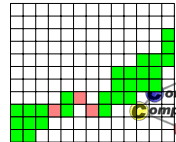
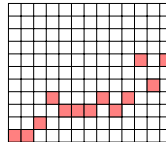
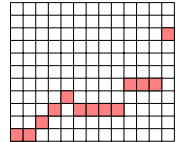
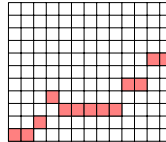
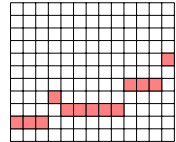
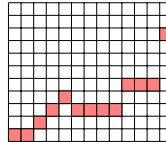


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	-
6	7	5	12	3	11
7	5	6	13	8	10
7	6	8	2	9	-
8	6	7	3	10	2
8	7	9	8	1	-
9	8	1	18	2	3
1	3	10	10	7	-
4	2	8	16	6	-
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	-
10	12	9	5	11	2
11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	3
12	10	9	7	13	-
12	11	13	8	2	-
12	13	11	6	8	-
13	11	10	9	12	-

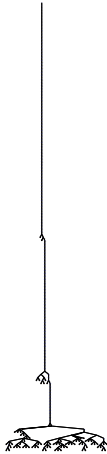


◀ Back to Start    ▶ Skip Animation

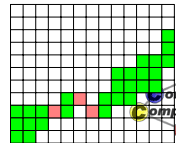
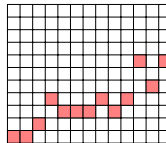
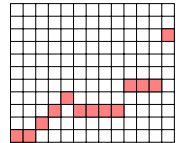
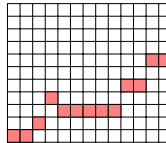
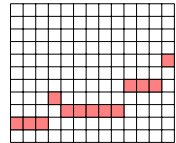
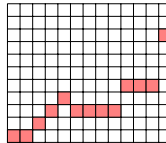
● Cork  
● Constraint  
● Computation  
● Centre



# Layered with Credit Search

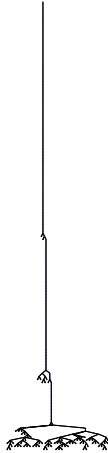


1	2	3	4	5	6
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	-
6	7	5	12	3	11
7	5	6	13	8	12
7	6	8	2	9	-
8	6	7	3	10	2
8	7	9	8	1	-
9	8	1	10	2	3
1	3	10	10	7	-
4	2	8	10	6	-
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	-
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11	10	13	6	12	-
11	12	10	7	6	-
11	13	12	9	10	3
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12	13	11	6	8	-
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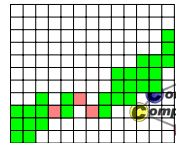
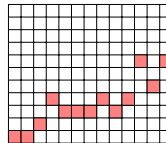
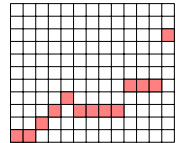
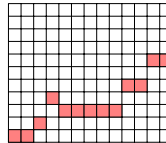
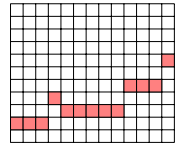
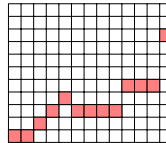


◀ Back to Start    ▶ Skip Animation

# Layered with Credit Search



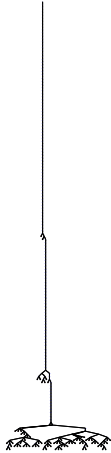
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7	6	8	2	9	7
8	6	7	3	10	2
8	7	9	8	1	7
9	8	1	18	2	3
1	3	10	10	7	7
4	2	8	16	6	7
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	7
10	12	9	5	11	2
11	10	13	6	12	7
11	12	10	7	6	7
11	13	12	9	10	5
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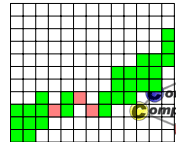
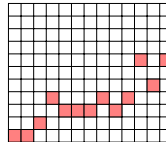
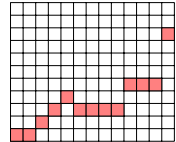
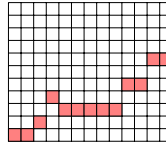
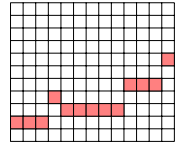
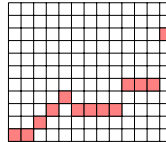
◀ Back to Start   ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search



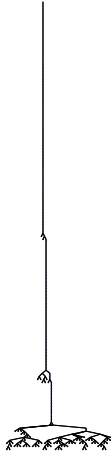
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11	12	10	7	6	1
11	13	12	9	10	8
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13	11	10	9	12	1



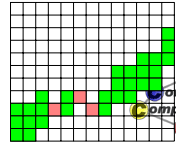
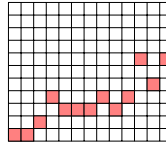
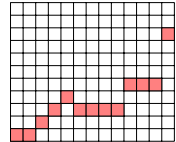
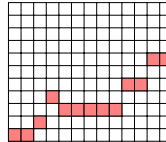
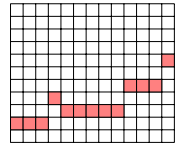
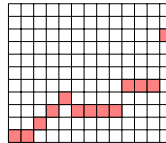
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search



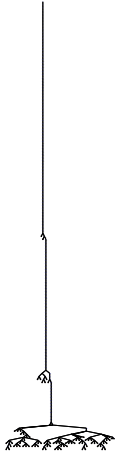
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6	7	5	12	3	11
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11	12	10	7	6	1
11	13	12	9	10	1
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13	11	10	9	12	1



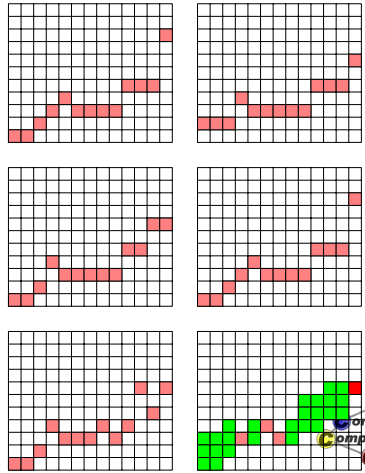
◀ Back to Start    ▶ Skip Animation



# Layered with Credit Search

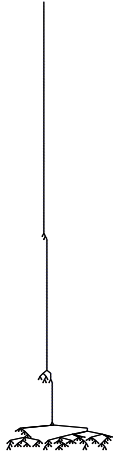


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1	3	10	10	7	2
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9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
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10	12	9	5	11	2
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11	12	10	7	6	2
11	13	12	9	10	2
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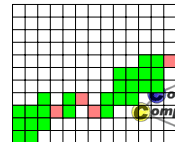
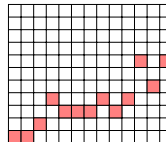
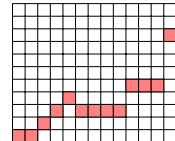
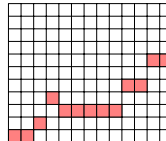
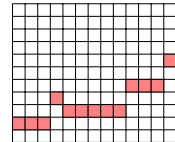
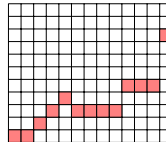


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



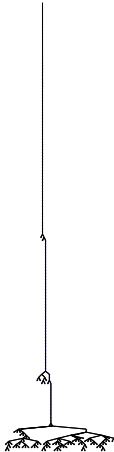
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3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	1
8	6	7	3	10	13
8	7	9	8	1	3
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
10	11	12	7	4	1
10	12	9	5	11	2
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11	12	10	7	6	1
11	13	12	9	10	1
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13	11	10	9	12	1



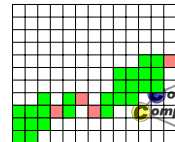
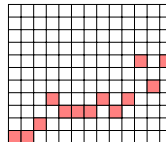
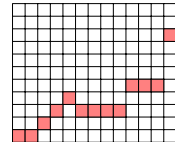
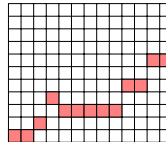
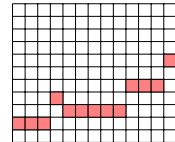
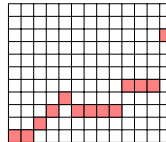
◀ Back to Start   ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search

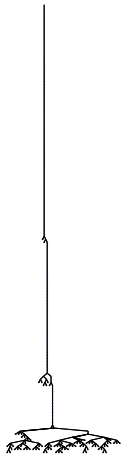


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7	5	6	13	8	2
7	6	8	2	9	1
8	6	7	3	10	13
8	7	9	8	1	10
9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	10
9	10	4	12	1	2
10	9	11	8	12	7
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10	12	9	5	11	2
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11	12	10	7	6	1
11	13	12	9	10	1
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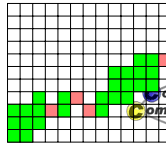
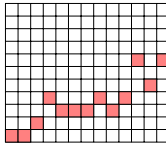
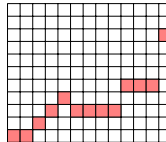
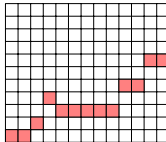
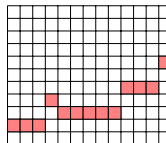
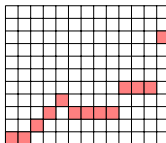


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
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3	1	4	2	6	5
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5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	11
7	5	6	13	8	2
7	6	8	2	9	1
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9	8	1	18	2	3
1	3	10	10	7	2
4	2	8	16	6	2
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10	12	9	5	11	2
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11	12	10	7	6	1
11	13	12	9	10	1
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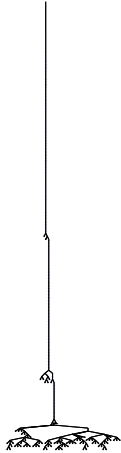


◀ Back to Start   ▶ Skip Animation

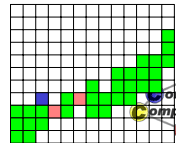
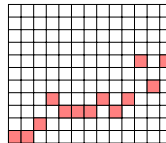
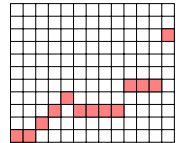
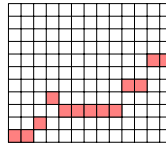
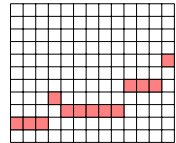
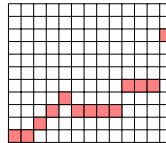
Cork  
Constraint  
Computation  
Centre



# Layered with Credit Search

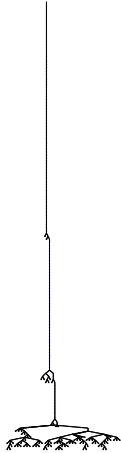


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3	9	6	1	2	4
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7	5	6	13	8	1
7	6	8	2	9	1
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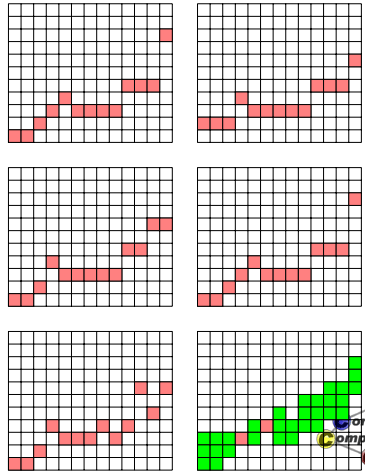


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search

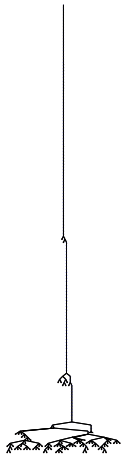


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11	12	10	7	6	1
11	13	12	9	10	1
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12	13	11	6	8	1
13	11	10	9	12	1

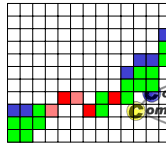
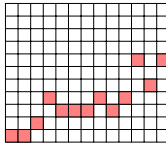
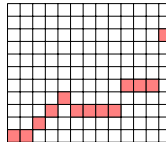
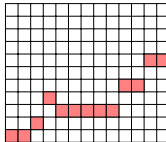
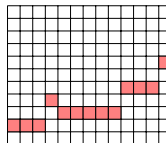
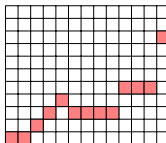


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# Layered with Credit Search



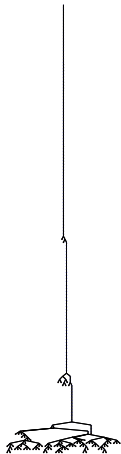
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3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	—
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	—
8	7	9	8	1	—
9	8	1	12	2	3
1	3	10	10	7	—
4	2	8	16	6	—
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9	4	3	7	11	—
9	10	4	12	1	—
10	9	11	8	12	2
10	11	12	7	4	5
10	12	9	5	11	3
11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	—
12	10	9	7	13	—
12	11	13	8	2	—
12	13	11	6	8	—
13	11	10	9	12	—



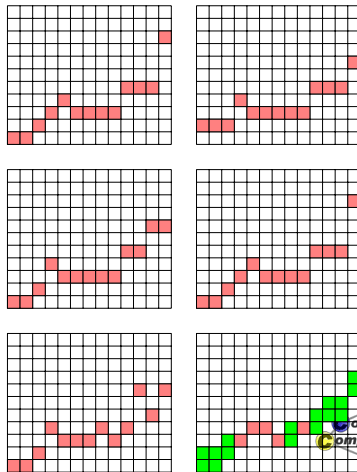
◀ Back to Start

▶ Skip Animation

# Layered with Credit Search

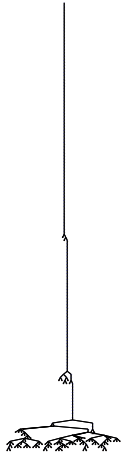


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4	1	2	3	7	9
5	4	2	1	3	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	—
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	—
8	7	9	8	1	—
9	8	1	12	2	3
1	3	10	10	7	2
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	2
9	10	4	12	1	2
10	9	11	8	12	2
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10	12	9	5	11	3
11	10	13	6	12	1
11	12	10	7	6	—
11	13	12	9	10	—
12	10	9	7	13	—
12	11	13	8	2	—
12	13	11	6	8	—
13	11	10	9	12	—

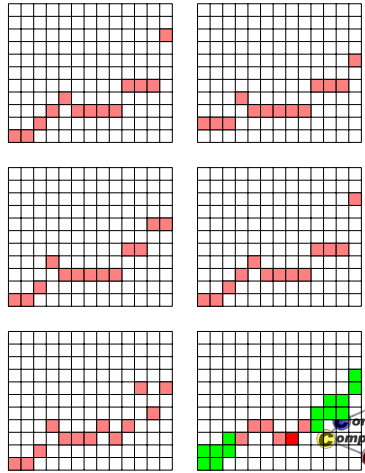


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



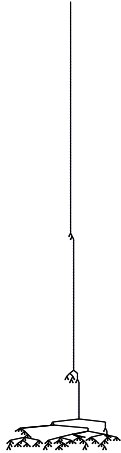
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5	4	2	1	9	8
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3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	—
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	—
8	7	9	8	1	—
9	8	1	12	2	3
1	3	10	10	7	8
4	2	8	16	6	2
5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	—
10	9	11	8	12	2
10	11	12	7	4	5
10	12	9	5	11	3
11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	—
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12	11	13	8	2	—
12	13	11	6	8	—
13	11	10	9	12	—



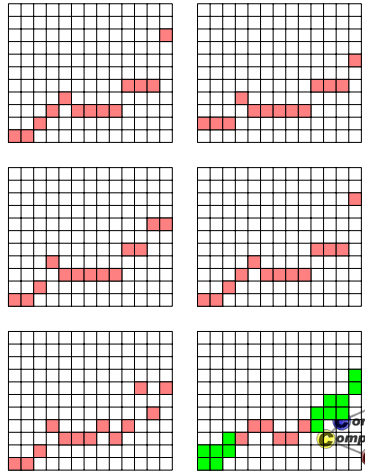
◀ Back to Start    ▶ Skip Animation



# Layered with Credit Search

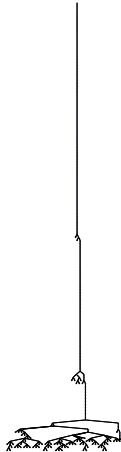


1	2	3	4	5	6
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3	1	4	2	6	5
4	1	2	3	7	9
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2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	—
7	5	6	13	8	—
7	6	8	2	9	—
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9	8	1	12	2	3
1	3	10	10	7	8
4	2	8	16	6	—
5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	—
10	9	11	8	12	2
10	11	12	7	4	5
10	12	9	5	11	3
11	10	13	6	12	—
11	12	10	7	6	—
11	13	12	9	10	2
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12	11	13	8	2	—
12	13	11	6	8	—
13	11	10	9	12	—

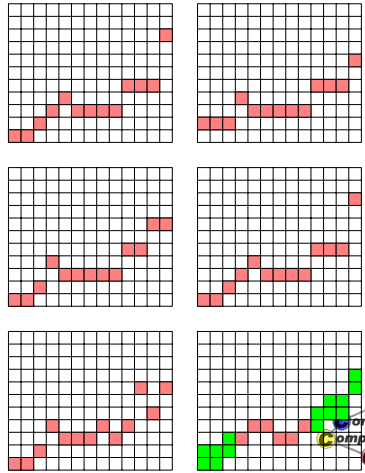


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# Layered with Credit Search

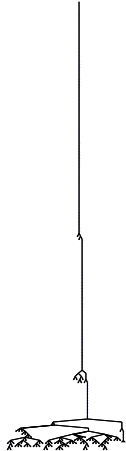


1	2	3	4	5	6
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3	9	6	1	2	4
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6	7	5	12	3	-
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10	12	9	5	11	3
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11	12	10	7	6	1
11	13	12	9	10	2
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12	11	13	8	2	1
12	13	11	6	8	-
13	11	10	9	12	-

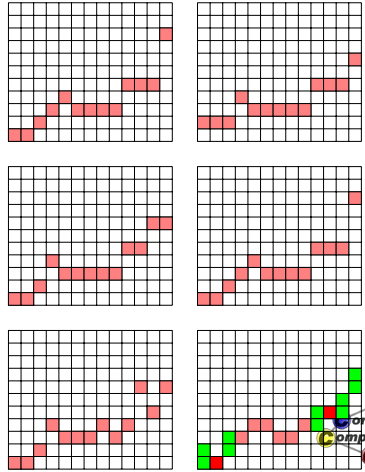


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# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	—
6	7	5	12	3	—
7	5	6	13	8	—
7	6	8	2	9	—
8	6	7	3	10	—
8	7	9	8	1	—
9	8	1	10	2	3
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5	9	12	10	11	1
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10	9	11	8	12	2
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11	12	10	7	6	1
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	1
12	13	11	6	8	1
13	11	10	9	12	1

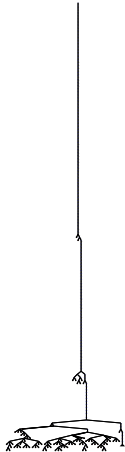


Cork  
Constraint  
Computation  
Centre

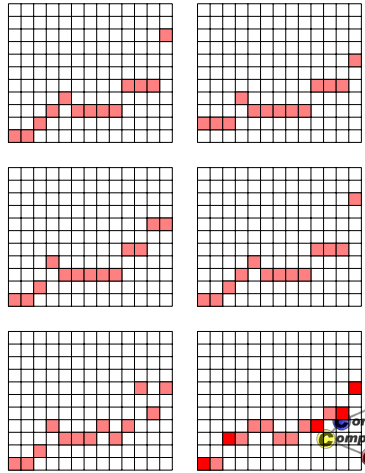
◀ Back to Start   ▶ Skip Animation



# Layered with Credit Search



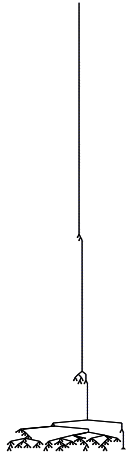
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6	7	5	12	3	—
7	5	6	13	8	—
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10	12	9	5	11	3
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11	12	10	7	6	1
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	1
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13	11	10	9	12	3



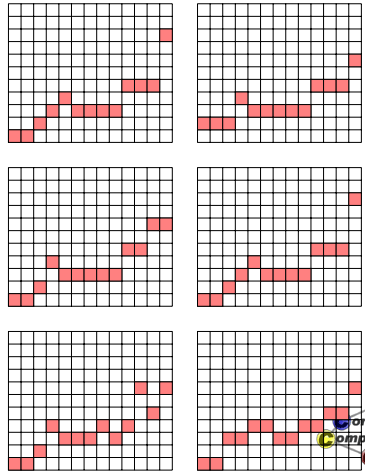
◀ Back to Start   ▶ Skip Animation

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search

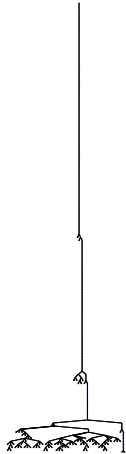


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4	1	2	3	7	9
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2	8	5	9	1	4
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6	7	5	12	3	-
7	5	6	13	8	-
7	6	8	2	9	-
8	6	7	3	10	-
8	7	9	8	1	-
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11	12	10	7	6	11
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	11
12	13	11	6	8	9
13	11	10	9	12	3

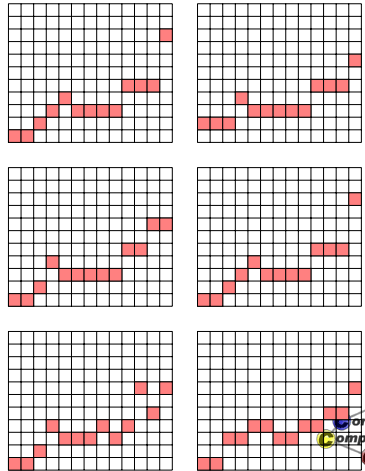


◀ Back to Start   ▶ Skip Animation

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	-
6	7	5	12	3	-
7	5	6	13	8	-
7	6	8	2	9	-
8	6	7	3	10	-
8	7	9	8	1	10
9	8	1	12	2	3
1	3	10	10	7	8
4	2	8	16	6	10
5	9	12	10	11	1
9	4	3	7	11	12
9	10	4	12	1	11
10	9	11	8	12	2
10	11	12	7	4	5
10	12	9	5	11	3
11	10	13	6	12	7
11	12	10	7	6	11
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	11
12	13	11	6	8	9
13	11	10	9	12	3

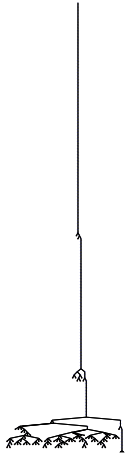


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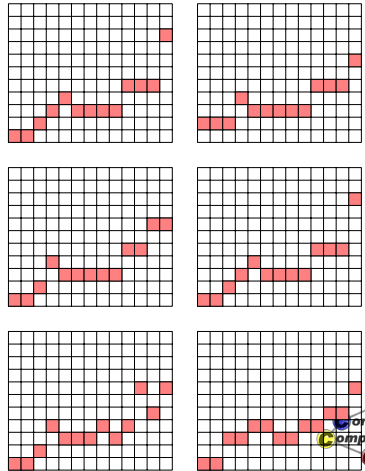
Navigation icons: back, forward, search, etc.

● Cork  
● Constraint  
● Computation  
● Centre

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	3
6	5	7	8	9	11
6	7	5	12	3	
7	5	6	13	8	
7	6	8	2	9	
8	6	7	3	10	
8	7	9	8	1	10
9	8	1	12	2	3
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10	12	9	5	11	3
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11	12	10	7	6	11
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	11
12	13	11	6	8	9
13	11	10	9	12	3

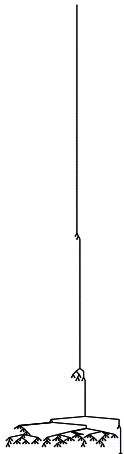


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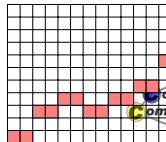
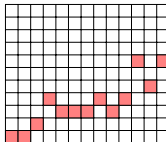
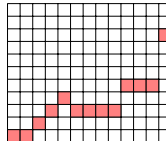
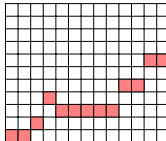
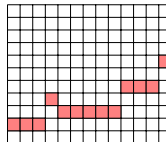
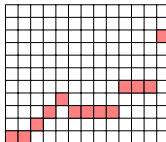
Navigation icons: back, forward, search, etc.

**Cork** (green circle)  
**Constraint** (blue circle)  
**Computation** (yellow circle)  
**Centre** (red circle)

# Layered with Credit Search



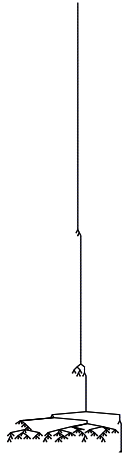
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4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	-
7	5	6	13	6	2
7	6	8	2	9	-
8	6	7	3	10	-
8	7	9	8	1	10
9	8	1	13	2	3
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10	9	11	8	12	2
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10	12	9	5	11	3
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11	12	10	7	6	11
11	13	12	9	10	2
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13	11	10	9	12	3



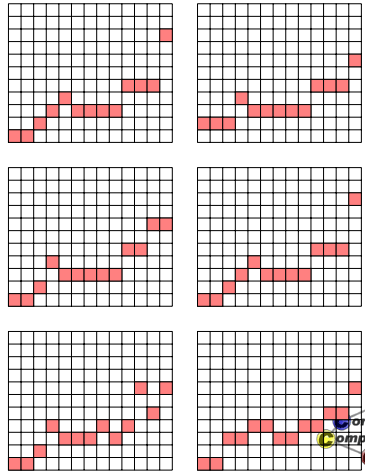
◀ Back to Start    ▶ Skip Animation

Cork  
Constraint  
Computation  
Centre

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	1
7	5	6	13	8	2
7	6	8	2	9	-
8	6	7	3	10	-
8	7	9	8	1	10
9	8	1	18	2	3
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4	2	8	16	6	10
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11	12	10	7	6	11
11	13	12	9	10	2
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13	11	10	9	12	3

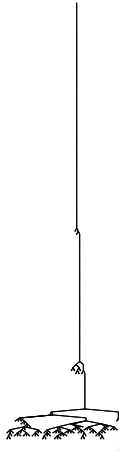


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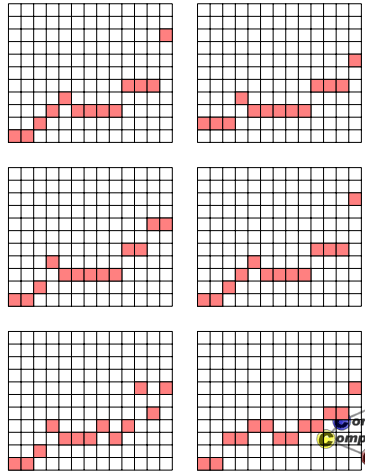
● Cork  
● Constraint  
● Computation  
● Centre

Navigation icons: back, forward, search, etc.

# Layered with Credit Search



1	2	3	4	5	6
2	3	1	5	4	7
3	1	4	2	6	5
4	1	2	3	7	9
5	4	2	1	9	8
2	8	5	9	1	4
3	9	6	1	2	4
6	5	7	8	9	11
6	7	5	12	3	1
7	5	6	13	6	2
7	6	8	2	9	12
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8	7	9	8	1	10
9	8	1	13	2	3
1	3	10	10	7	8
4	2	8	13	6	10
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10	9	11	8	12	2
10	11	12	7	4	5
10	12	9	5	11	3
11	10	13	6	12	7
11	12	10	7	6	1
11	13	12	9	10	2
12	10	9	7	13	2
12	11	13	8	2	1
12	13	11	6	8	9
13	11	10	9	12	3



◀ Back to Start

# Observations

- Improved search
- Need more sample problems to really understand impact





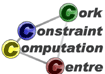
# Idea

- Randomize value selection
- Remove bias picking bins in same order
- Allows to add restart
- When spending too much time without finding solution
- Restart search from beginning
- Randomization will explore other initial assignments
- Do not get caught in “dead” part of search tree

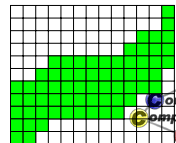
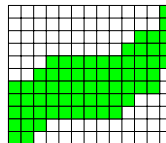
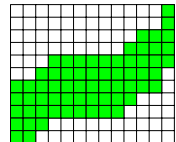
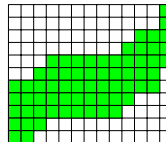
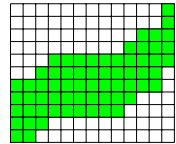
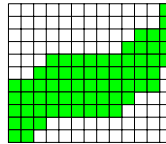


# Randomized with Restart

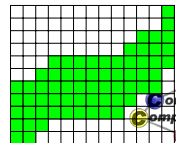
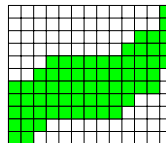
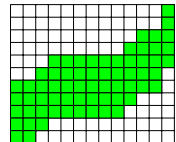
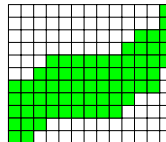
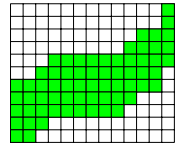
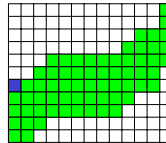
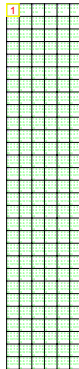
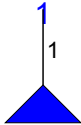
```
assign(Matrix,NrPeriods,NrGuests):-  
  repeat,  
  (for(J,1,NrPeriods),  
   param(Matrix,NrGuests) do  
     NSq is NrGuests*NrGuests,  
     once(search(Matrix[1..NrGuests,J],0,  
                first_fail,indomain_random,  
                credit(NSq,10),[]))  
  ),  
  !.
```



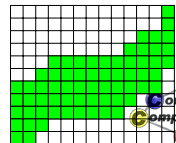
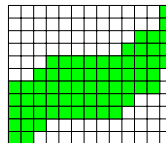
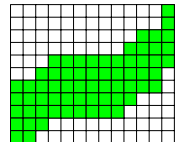
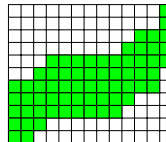
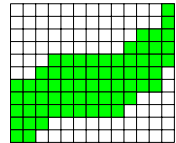
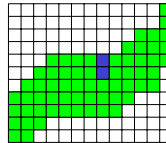
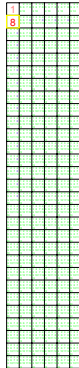
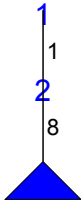
# Randomized Search



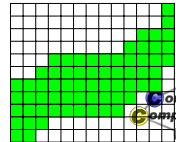
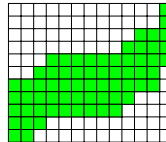
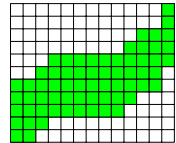
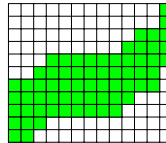
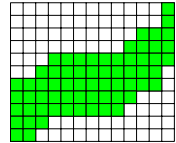
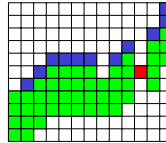
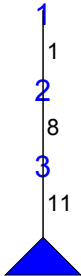
# Randomized Search



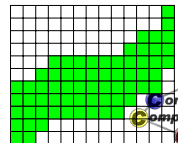
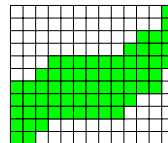
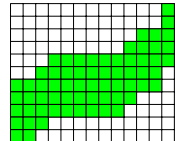
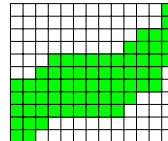
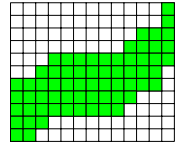
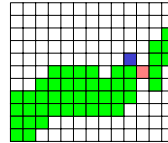
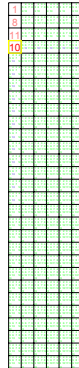
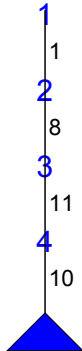
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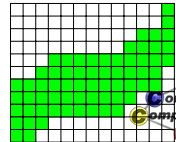
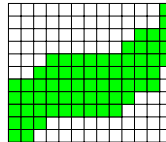
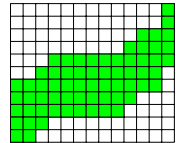
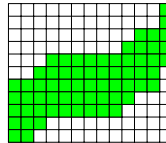
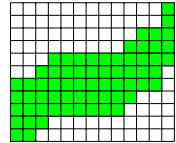
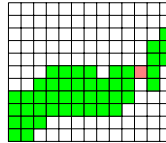
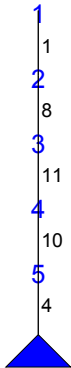
# Randomized Search



# Randomized Search

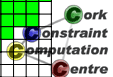
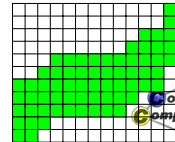
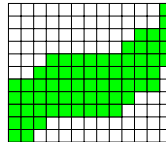
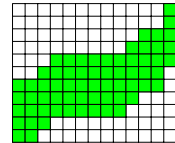
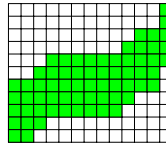
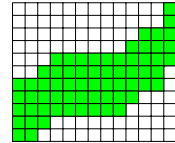
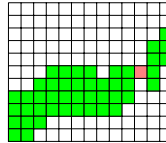
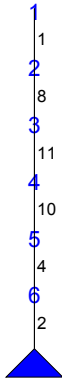


# Randomized Search

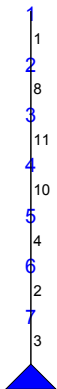




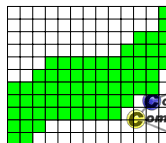
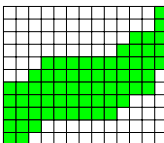
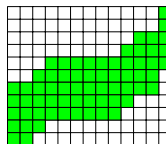
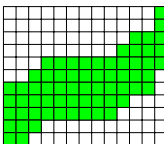
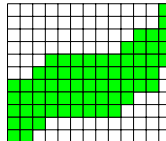
# Randomized Search



# Randomized Search

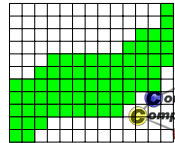
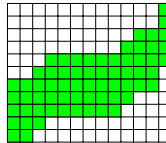
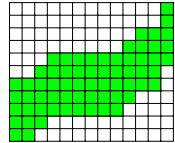
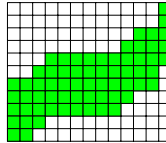
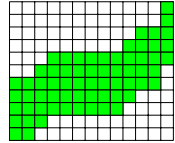
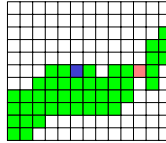
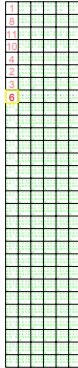
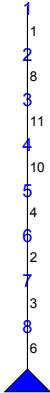


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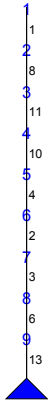


Cork  
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 Centre

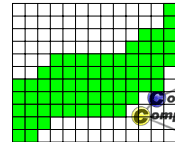
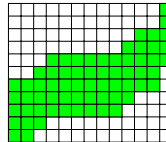
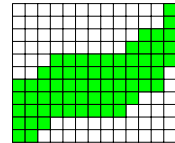
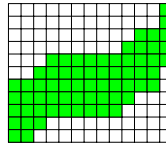
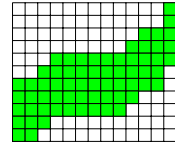
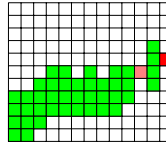
# Randomized Search



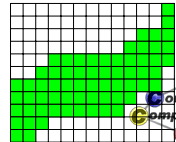
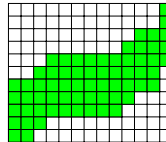
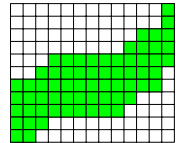
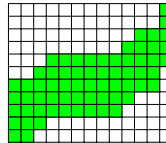
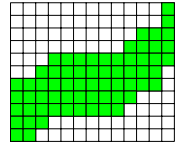
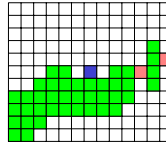
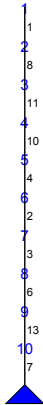
# Randomized Search



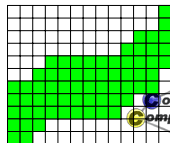
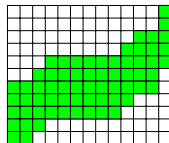
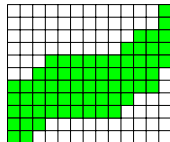
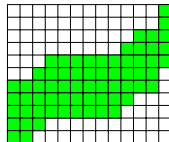
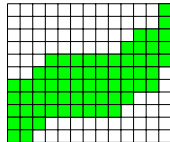
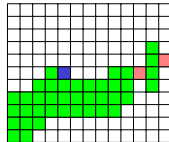
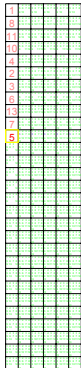
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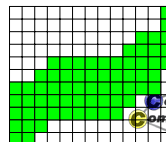
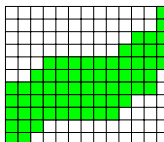
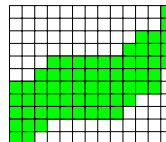
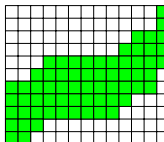
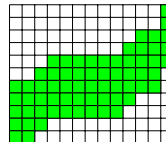
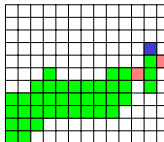
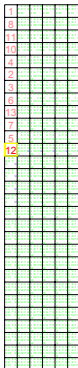
# Randomized Search



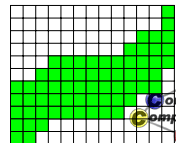
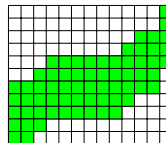
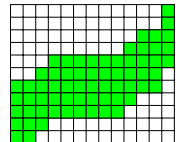
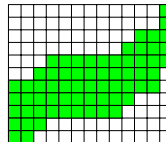
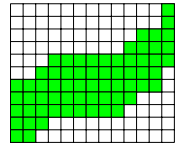
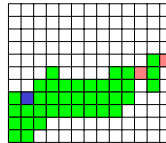
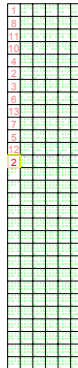
# Randomized Search



# Randomized Search

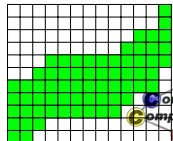
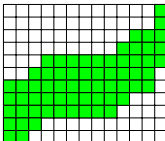
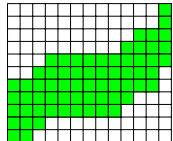
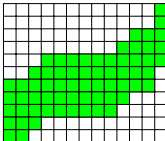
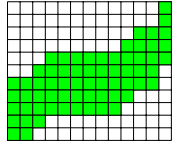
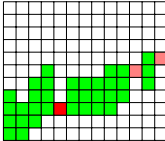
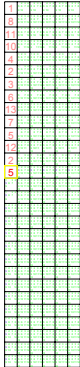
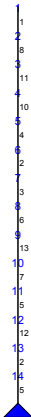


# Randomized Search





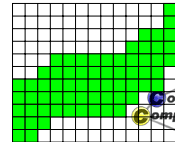
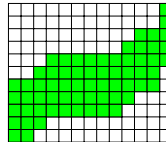
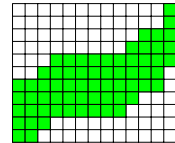
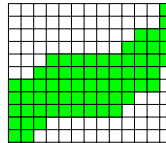
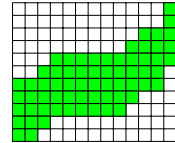
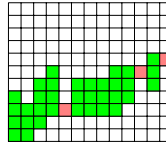
# Randomized Search



# Randomized Search



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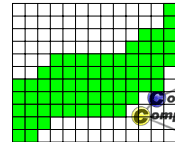
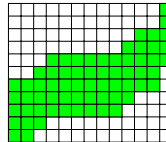
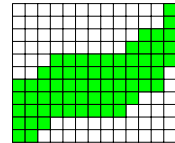
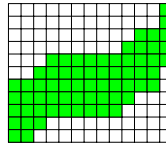
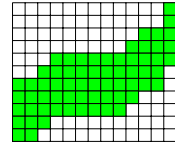
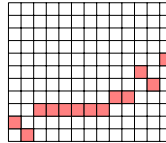




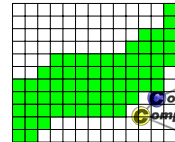
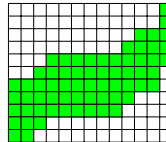
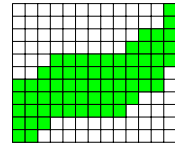
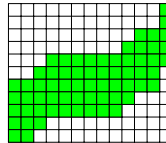
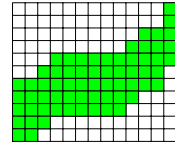
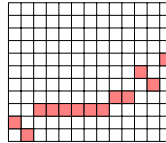
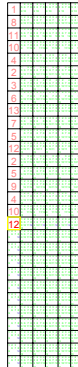
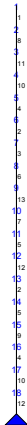
# Randomized Search



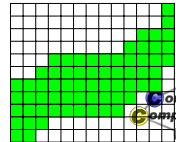
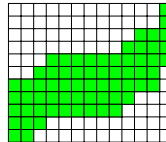
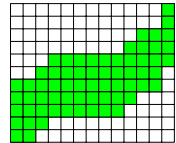
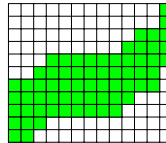
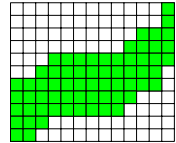
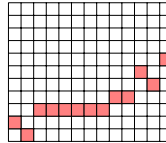
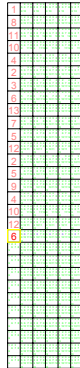
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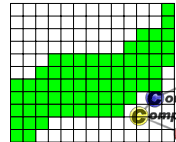
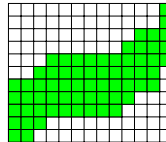
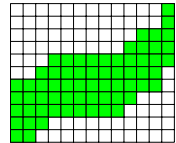
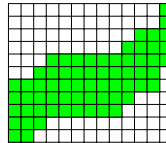
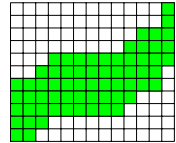
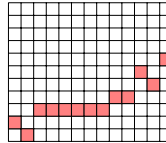
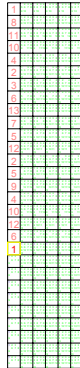
# Randomized Search



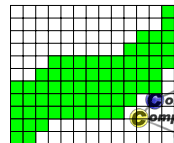
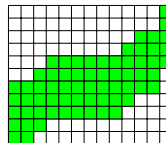
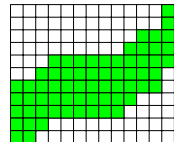
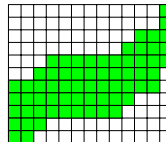
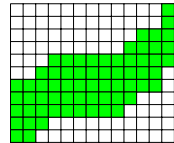
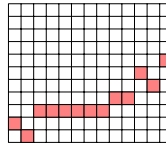
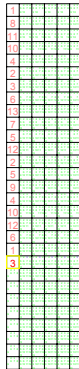
# Randomized Search



# Randomized Search



# Randomized Search

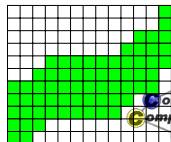
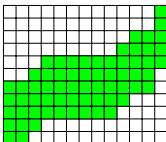
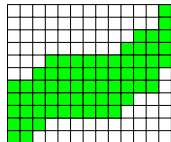
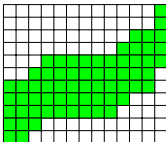
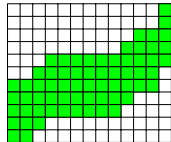
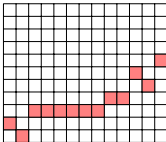




# Randomized Search



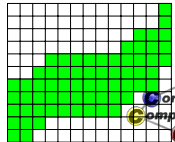
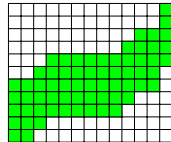
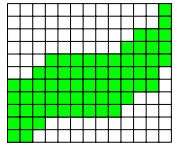
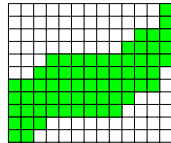
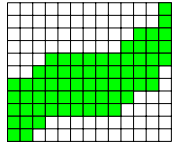
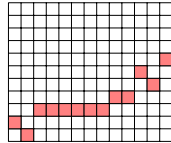
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# Randomized Search




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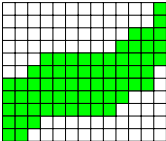
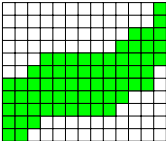
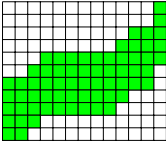
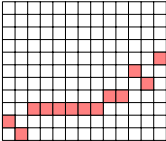




# Randomized Search



A vertical list of 27 numbered boxes, each containing a 10x10 grid. The boxes are numbered 1 through 27. The numbers 1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, and 27 are in red. The number 7 is in yellow. Each grid shows a different configuration of colored cells (red or green) on a white background, representing a search space.

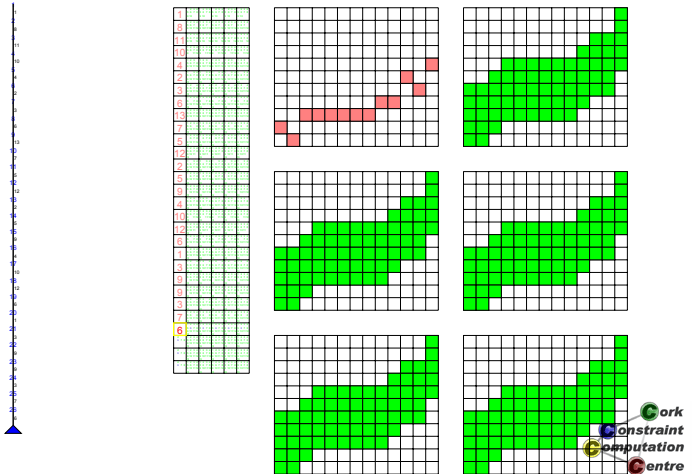


Cork  
Constraint  
Computation  
Centre

[← Back to Start](#) [→ Skip Animation](#)

⏪ ⏩ ⏮ ⏭ ⏯ ⏸ ⏹ ⏺

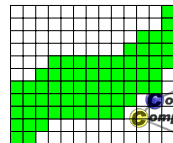
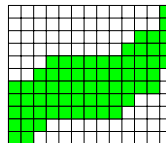
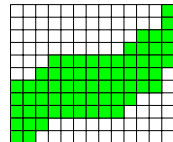
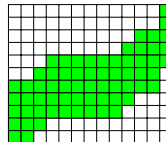
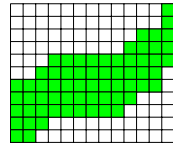
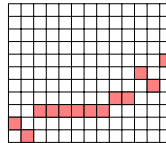
# Randomized Search



# Randomized Search



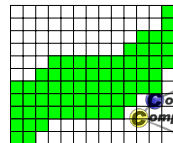
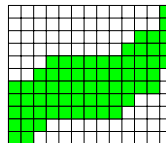
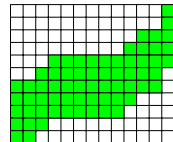
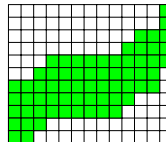
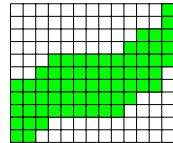
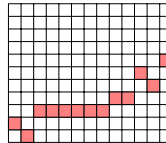
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# Randomized Search



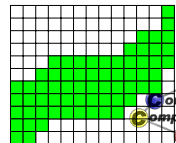
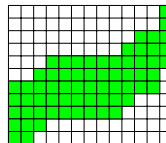
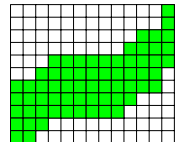
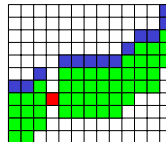
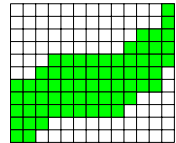
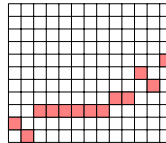
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# Randomized Search



1	4	...
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8	...	
2	...	

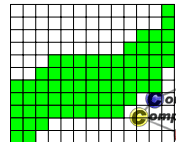
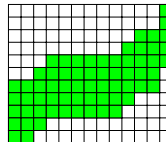
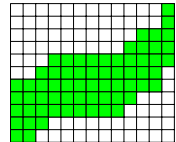
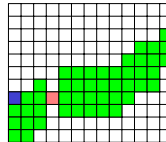
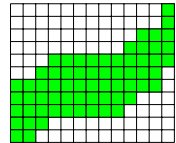
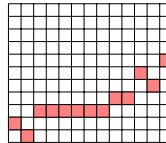




# Randomized Search



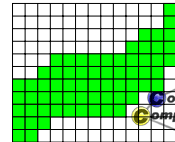
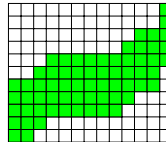
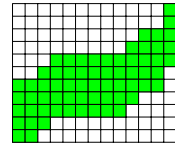
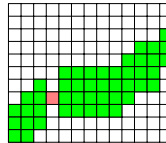
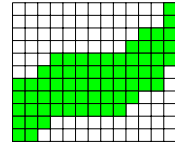
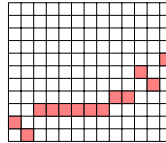
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# Randomized Search



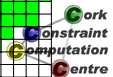
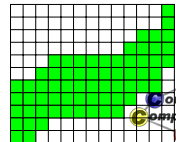
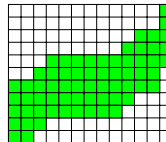
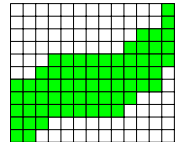
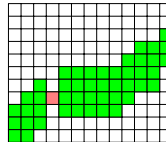
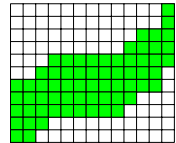
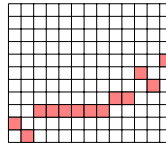
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3	4	5	6	7	8	9	10	11	12	13	14
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3	4	5	6	7	8	9	10	11	12	13	14
7	8	9	10	11	12	13	14	1	2	3	4
6	7	8	9	10	11	12	13	14	1	2	3
7	8	9	10	11	12	13	14	1	2	3	4
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# Randomized Search



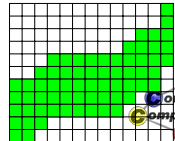
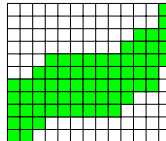
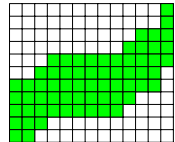
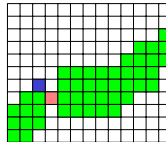
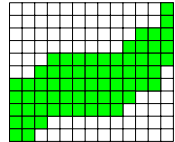
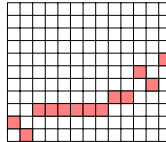
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11	9	...	...
10	7	...	...
4	...	...	...
2	...	...	...
6	...	...	...
13	...	...	...
7	...	...	...
5	...	...	...
12	...	...	...
2	...	...	...
5	...	...	...
9	...	...	...
4	...	...	...
10	...	...	...
12	...	...	...
6	...	...	...
1	...	...	...
3	...	...	...
9	...	...	...
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6	...	...	...
7	...	...	...
8	...	...	...
2	...	...	...



# Randomized Search



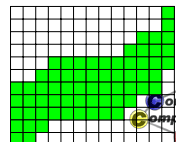
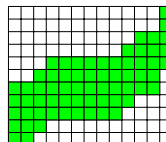
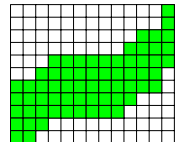
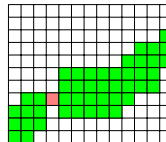
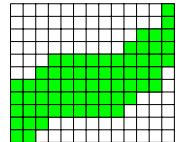
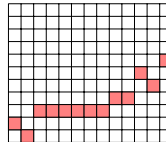
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11	9
10	7
4	3
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8	
2	



# Randomized Search



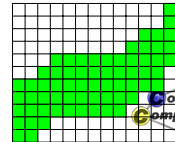
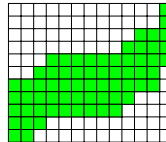
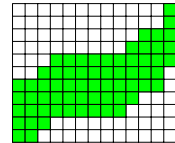
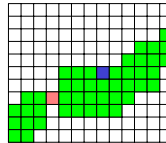
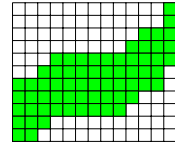
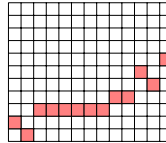
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11	9	...	...	...	...
10	7	...	...	...	...
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2	10	...	...	...	...
3	...	...	...	...	...
6	...	...	...	...	...
13	...	...	...	...	...
7	...	...	...	...	...
5	...	...	...	...	...
12	...	...	...	...	...
2	...	...	...	...	...
5	...	...	...	...	...
9	...	...	...	...	...
4	...	...	...	...	...
10	...	...	...	...	...
12	...	...	...	...	...
6	...	...	...	...	...
1	...	...	...	...	...
9	...	...	...	...	...
3	...	...	...	...	...
9	...	...	...	...	...
3	...	...	...	...	...
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7	...	...	...	...	...
8	...	...	...	...	...
2	...	...	...	...	...



# Randomized Search



1	4	...	...
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6	1	...	...
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7	...	...	...
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12	...	...	...
2	...	...	...
5	...	...	...
9	...	...	...
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12	...	...	...
6	...	...	...
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9	...	...	...
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8	...	...	...
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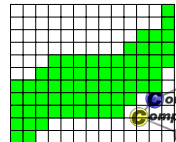
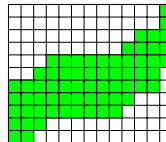
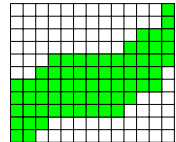
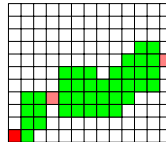
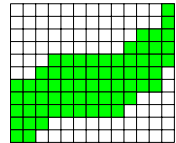
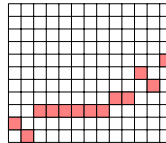




# Randomized Search



1	4	...	...	...	...
8	1	...	...	...	...
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10	7	...	...	...	...
4	3	...	...	...	...
2	10	...	...	...	...
3	8	...	...	...	...
6	13	...	...	...	...
13	...	...	...	...	...
7	...	...	...	...	...
5	1	...	...	...	...
12	...	...	...	...	...
2	...	...	...	...	...
5	...	...	...	...	...
9	...	...	...	...	...
4	...	...	...	...	...
10	...	...	...	...	...
12	...	...	...	...	...
6	...	...	...	...	...
1	...	...	...	...	...
3	...	...	...	...	...
9	...	...	...	...	...
9	...	...	...	...	...
3	...	...	...	...	...
7	...	...	...	...	...
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7	...	...	...	...	...
8	...	...	...	...	...
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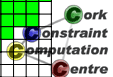
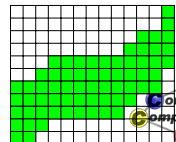
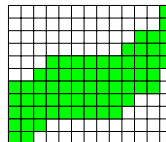
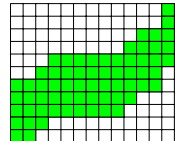
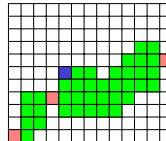
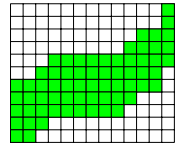
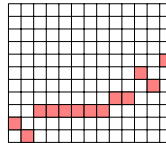




# Randomized Search



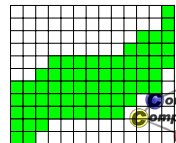
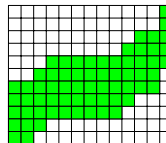
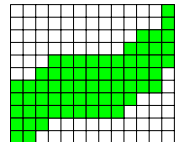
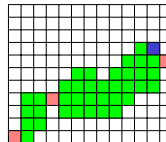
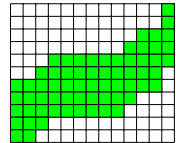
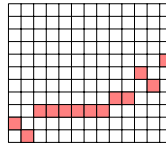
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# Randomized Search



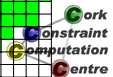
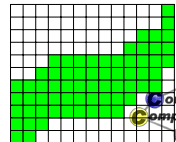
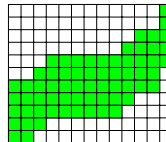
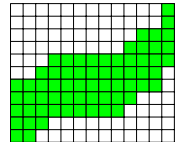
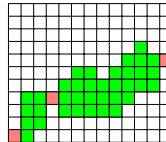
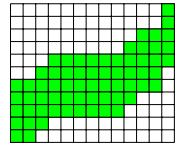
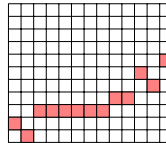
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# Randomized Search



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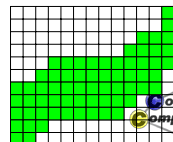
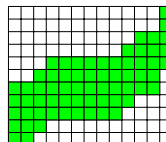
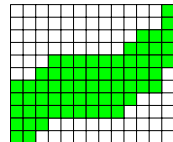
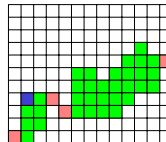
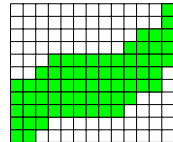
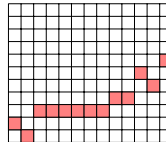




# Randomized Search



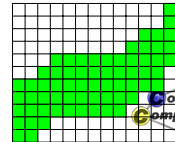
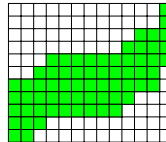
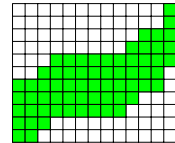
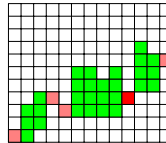
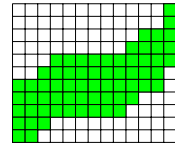
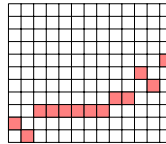
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# Randomized Search



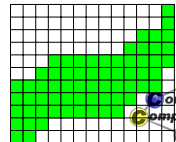
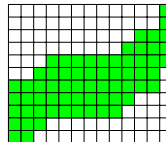
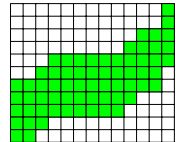
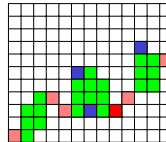
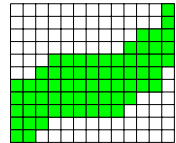
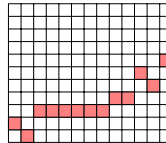
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# Randomized Search



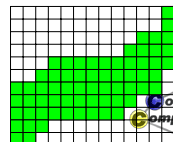
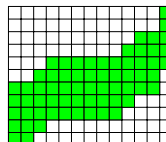
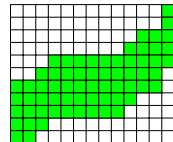
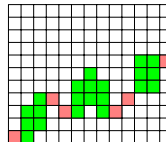
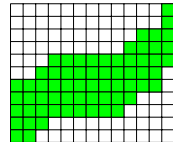
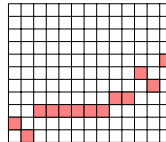
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# Randomized Search



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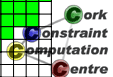
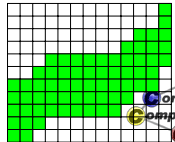
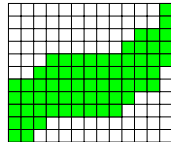
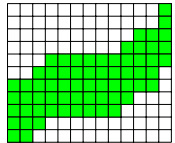
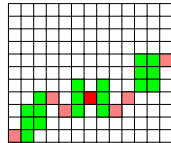
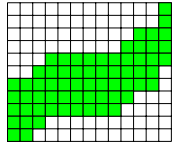
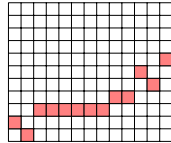




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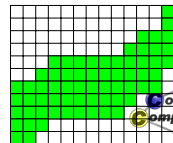
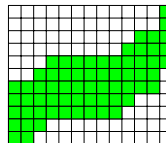
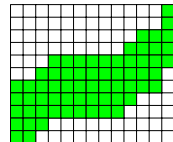
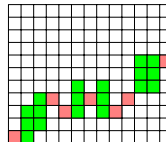
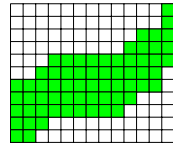
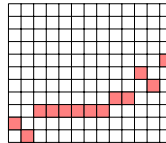
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# Randomized Search



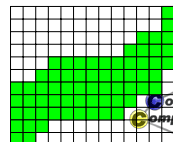
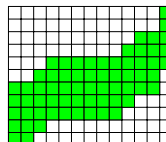
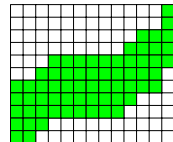
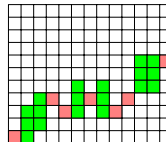
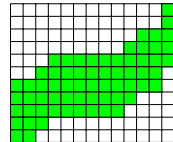
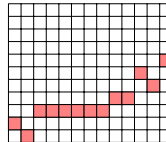
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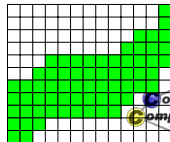
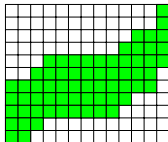
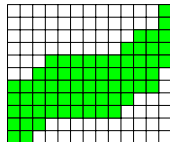
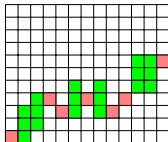
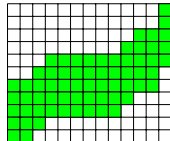
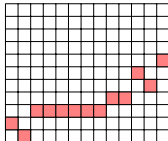


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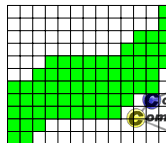
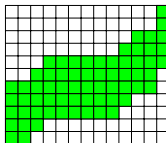
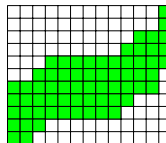
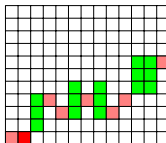
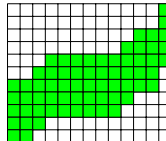
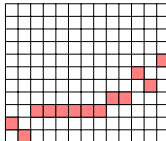
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# Randomized Search



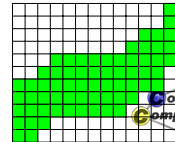
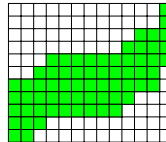
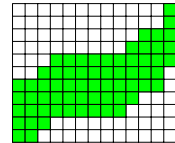
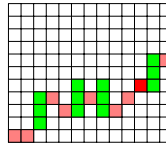
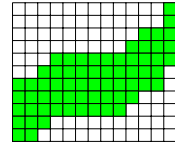
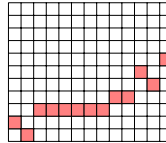
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# Randomized Search



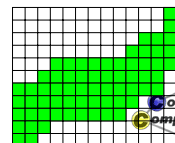
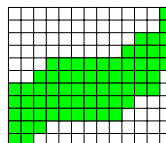
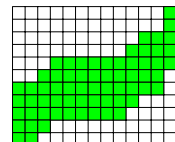
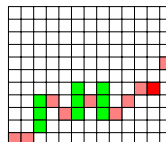
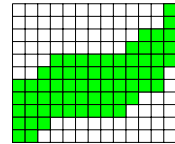
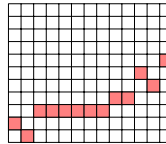
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# Randomized Search



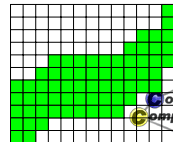
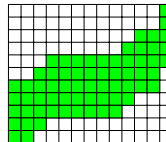
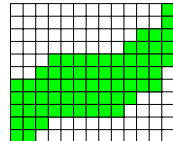
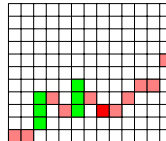
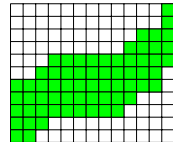
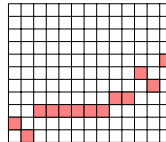
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# Randomized Search



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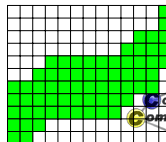
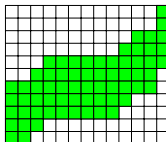
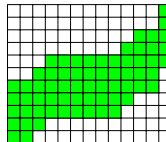
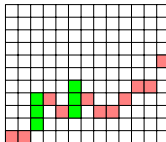
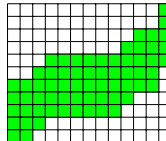
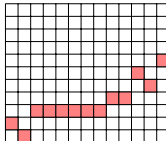




# Randomized Search



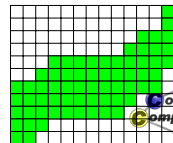
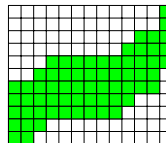
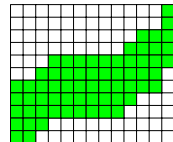
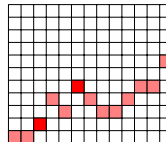
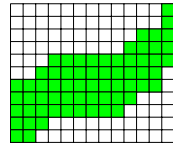
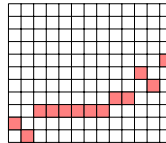
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# Randomized Search



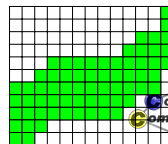
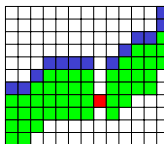
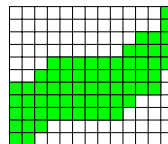
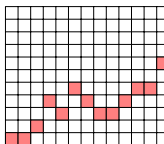
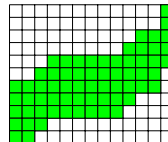
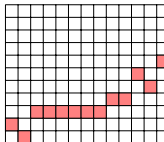
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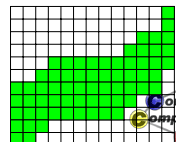
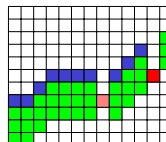
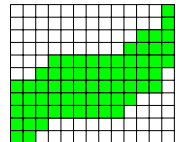
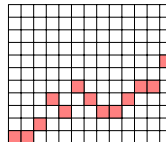
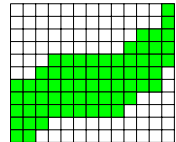
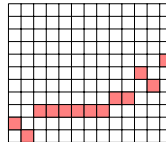
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# Randomized Search

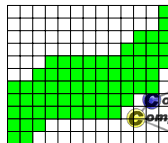
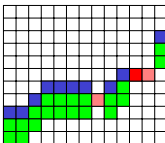
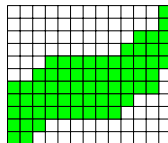
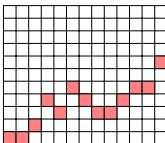
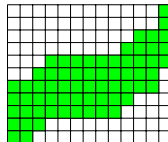
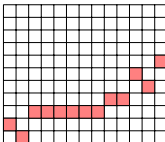


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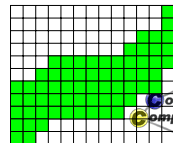
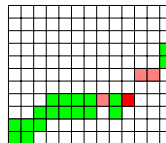
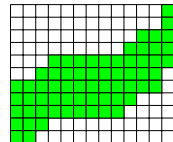
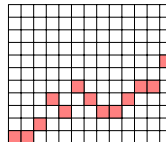
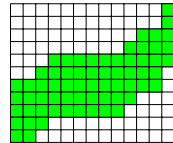
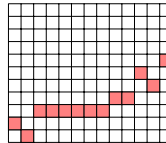
# Randomized Search

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# Randomized Search

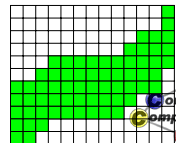
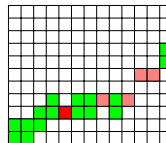
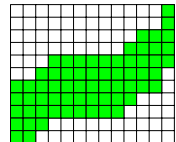
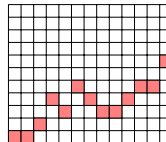
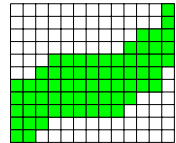
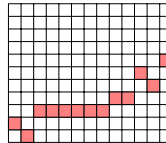
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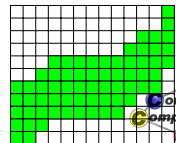
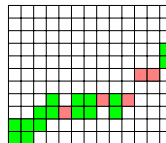
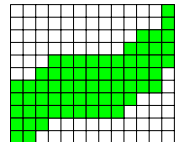
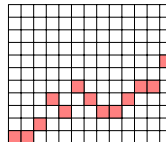
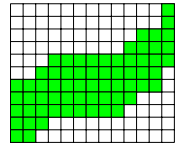
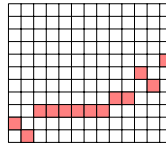


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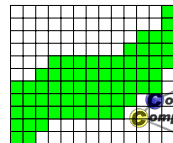
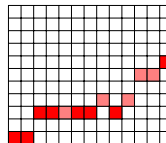
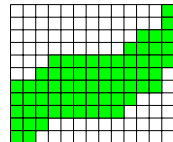
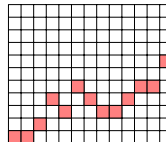
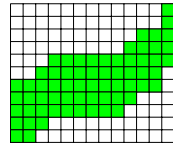
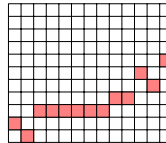
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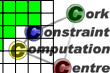
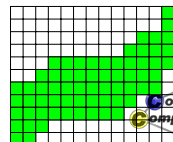
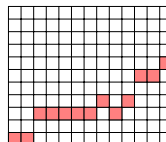
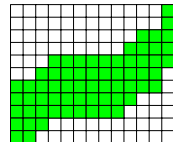
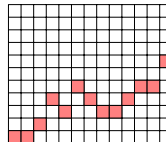
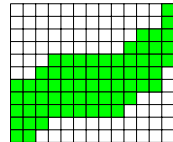
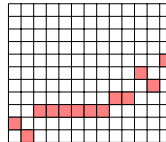
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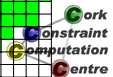
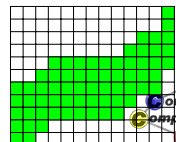
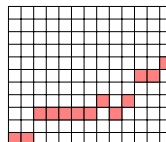
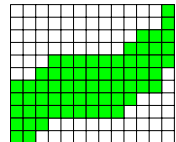
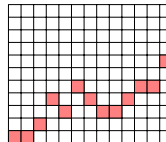
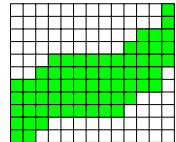
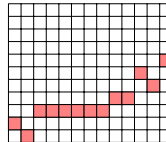
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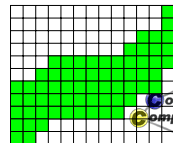
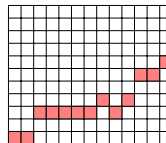
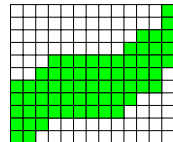
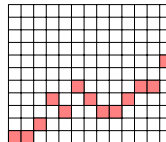
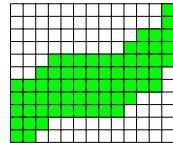
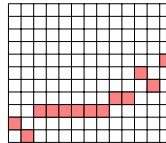


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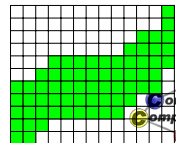
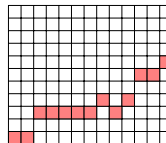
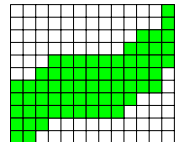
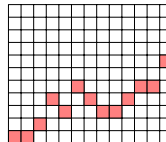
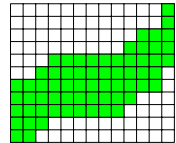
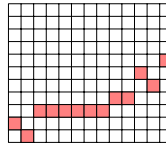
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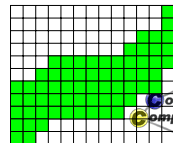
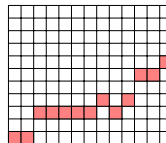
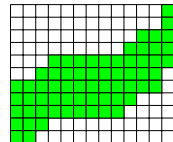
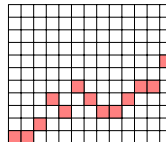
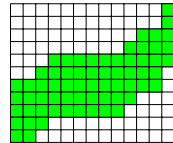
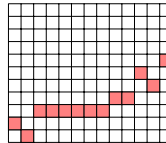
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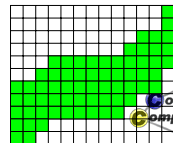
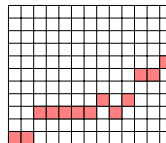
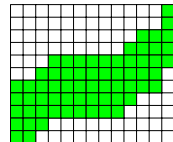
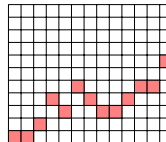
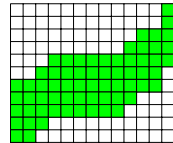
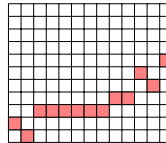
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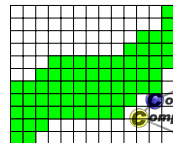
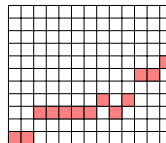
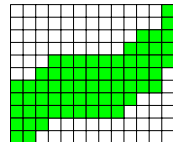
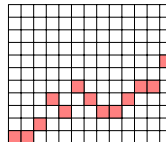
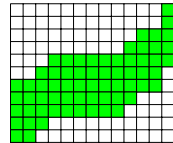
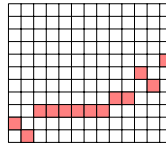
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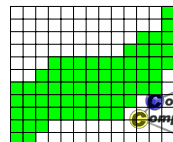
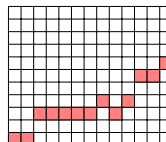
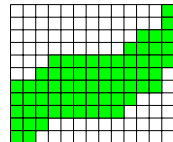
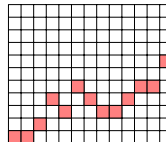
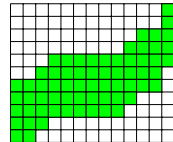
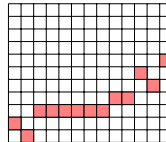
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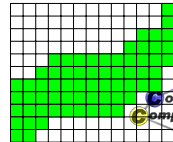
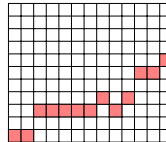
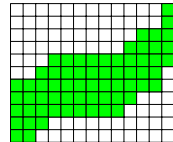
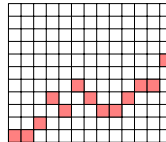
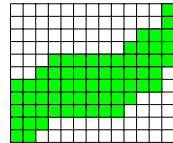
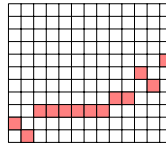
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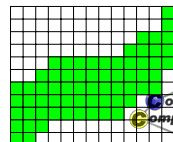
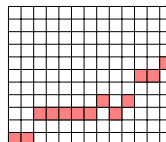
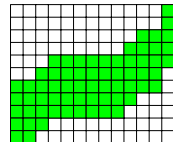
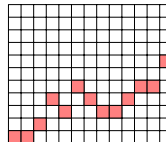
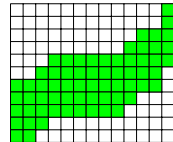
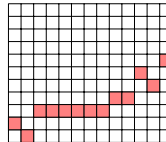
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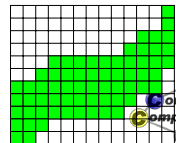
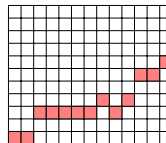
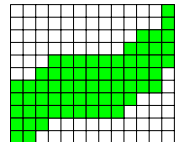
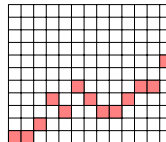
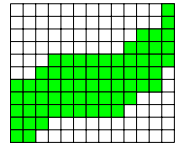
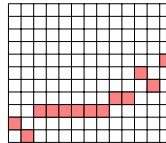
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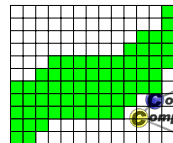
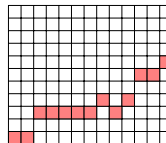
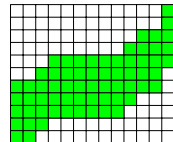
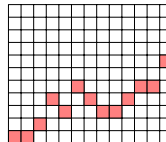
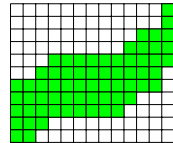
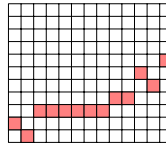
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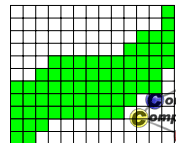
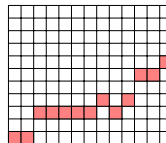
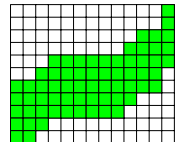
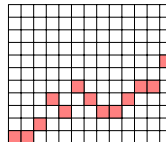
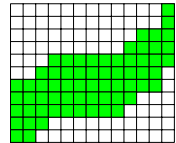
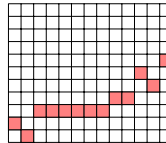
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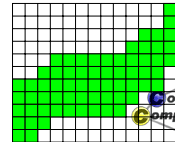
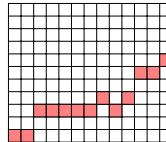
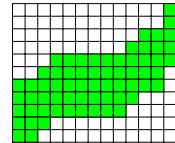
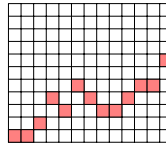
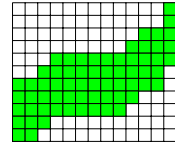
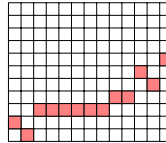
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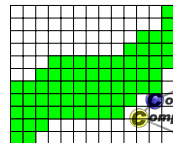
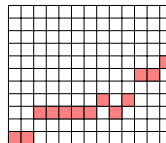
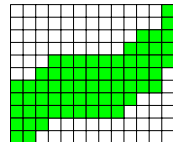
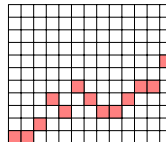
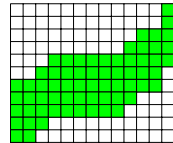
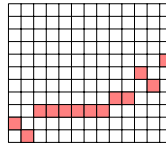
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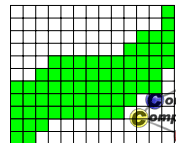
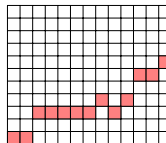
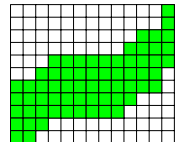
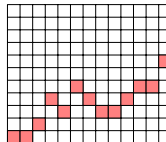
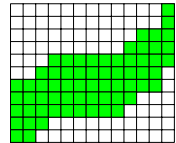
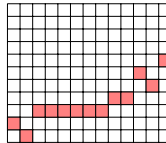
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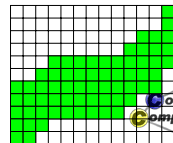
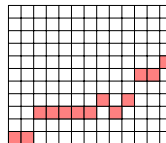
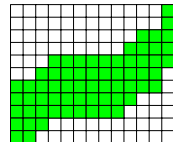
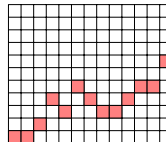
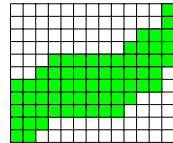
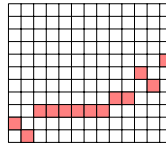
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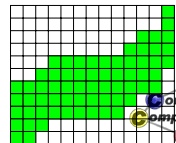
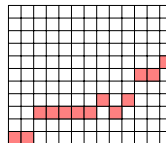
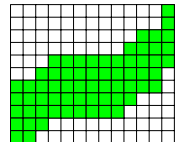
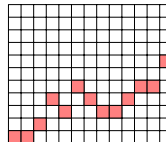
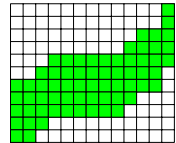
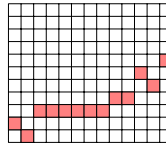
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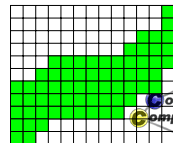
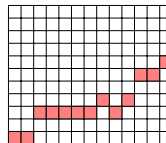
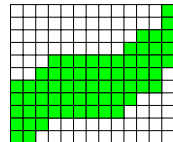
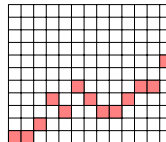
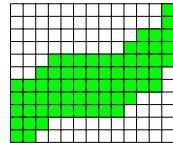
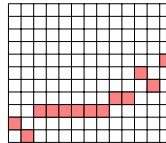
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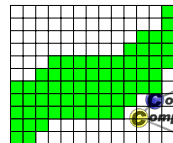
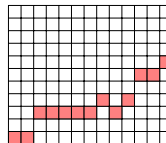
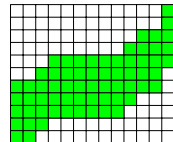
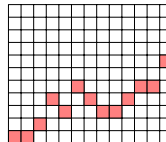
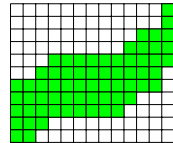
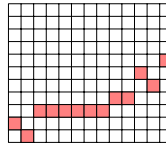
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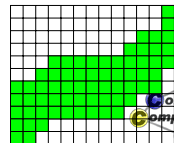
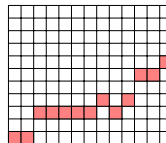
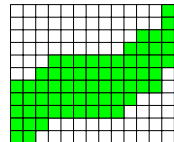
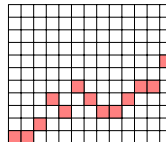
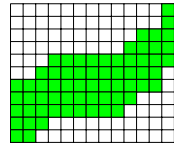
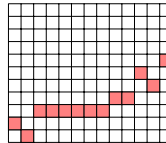
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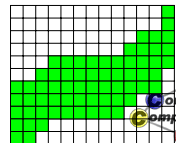
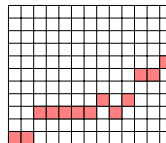
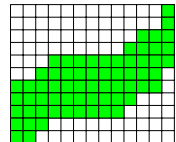
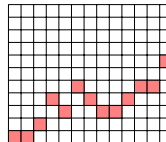
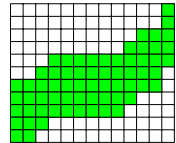
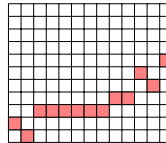
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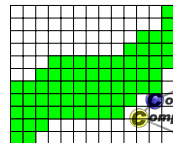
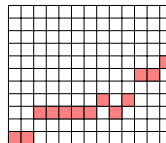
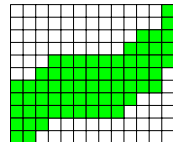
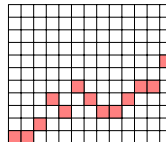
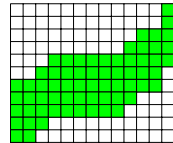
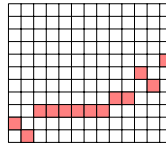
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# Randomized Search

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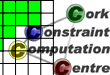
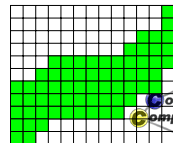
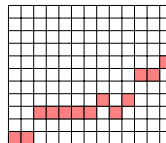
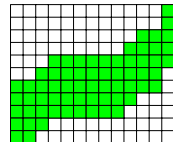
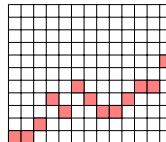
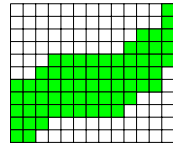
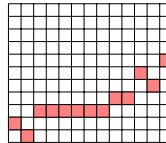




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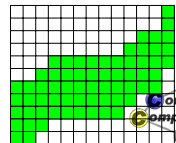
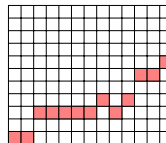
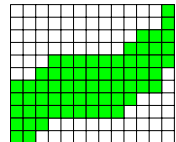
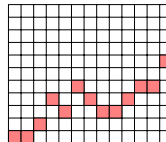
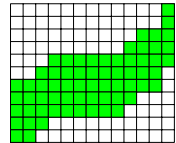
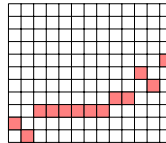
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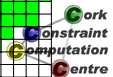
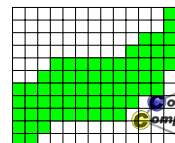
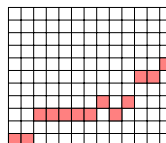
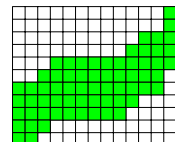
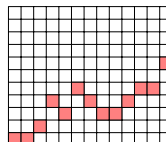
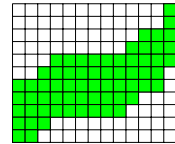
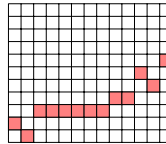
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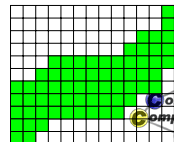
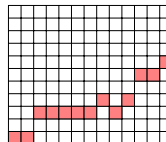
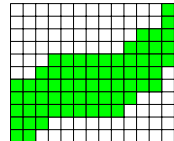
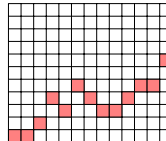
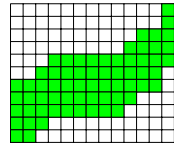
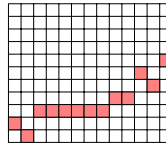
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# Randomized Search



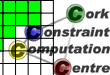
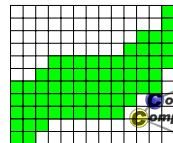
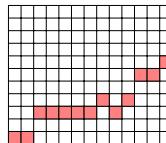
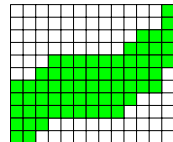
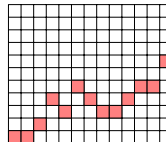
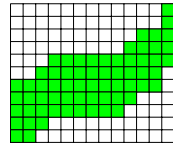
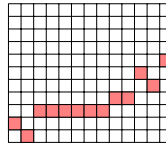
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# Randomized Search



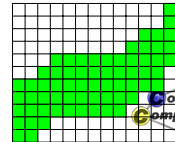
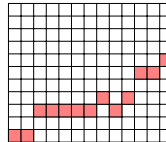
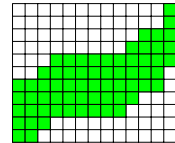
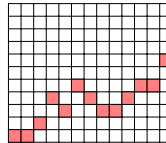
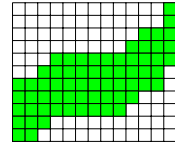
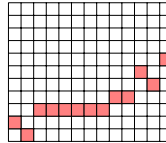
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# Randomized Search



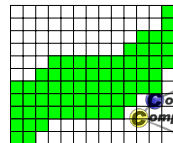
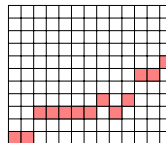
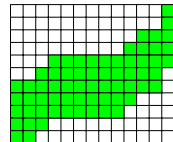
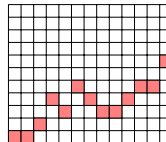
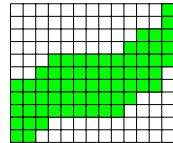
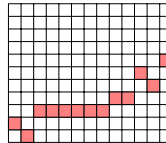
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# Randomized Search



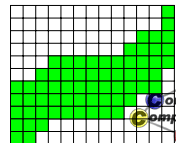
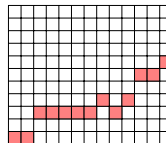
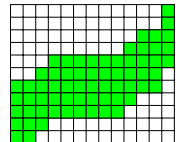
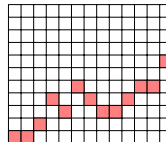
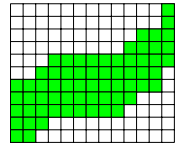
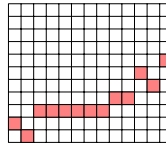
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# Randomized Search



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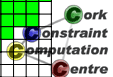
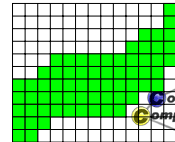
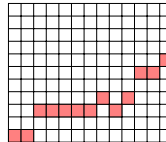
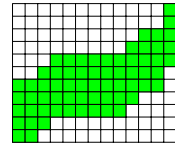
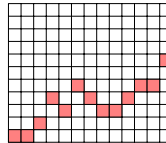
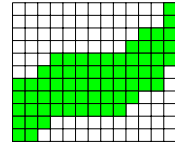
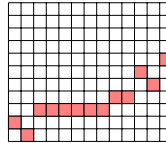




# Randomized Search



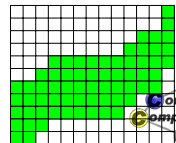
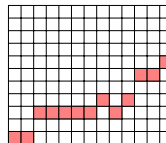
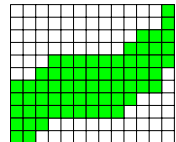
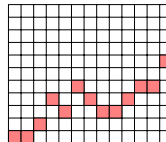
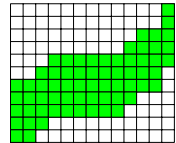
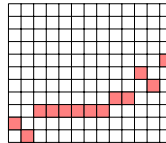
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# Randomized Search



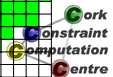
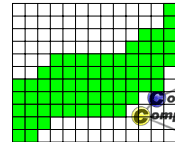
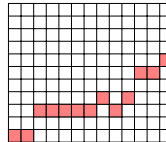
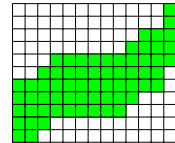
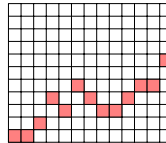
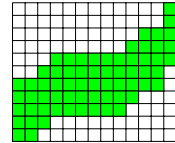
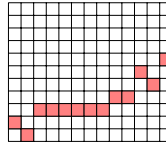
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# Randomized Search



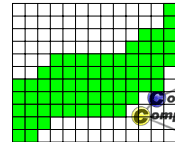
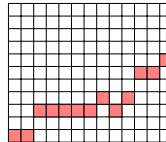
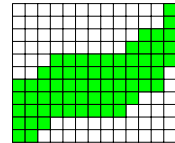
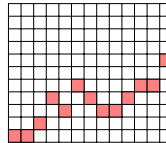
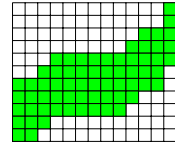
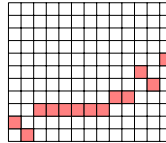
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# Randomized Search



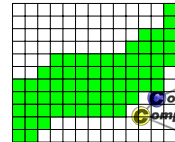
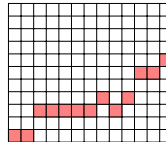
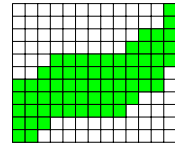
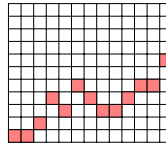
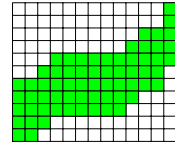
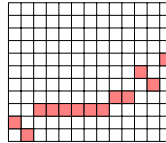
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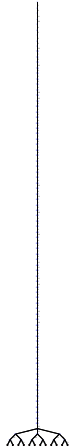
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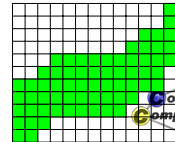
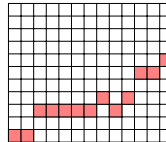
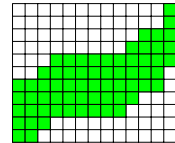
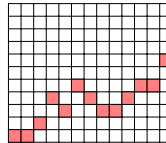
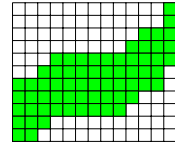
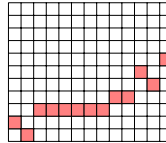
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# Randomized Search



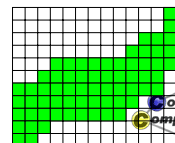
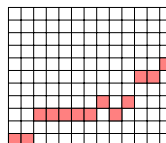
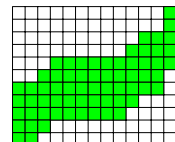
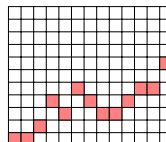
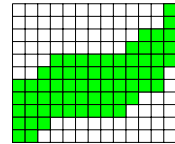
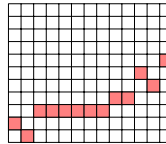
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# Randomized Search



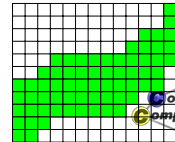
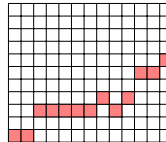
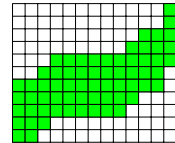
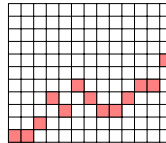
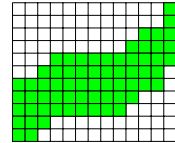
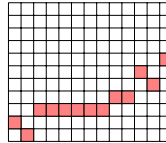
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# Randomized Search



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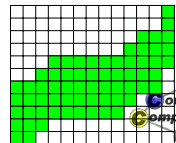
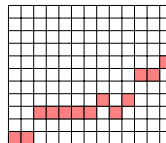
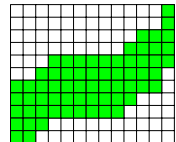
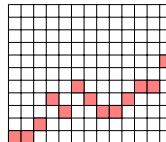
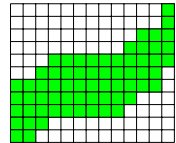
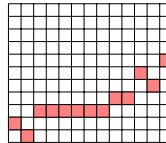




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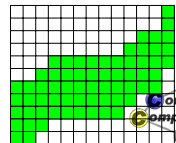
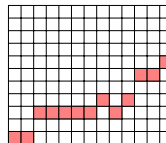
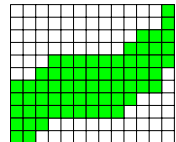
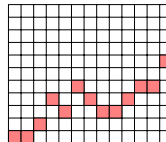
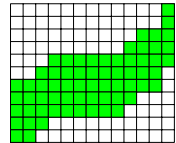
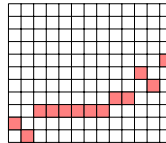
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# Randomized Search



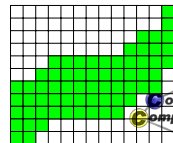
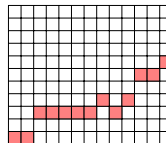
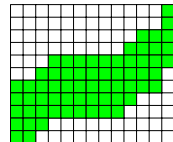
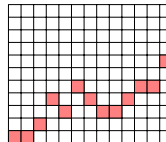
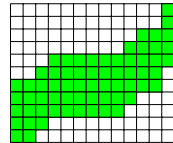
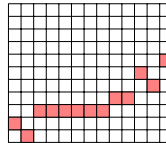
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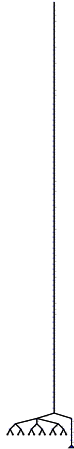
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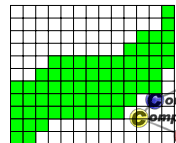
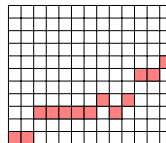
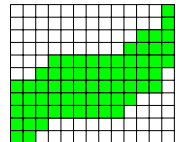
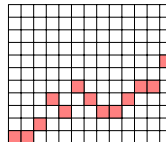
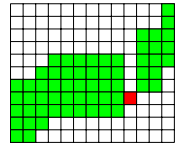
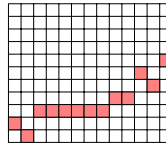
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# Randomized Search



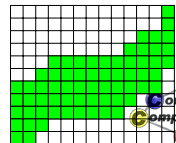
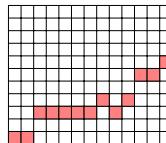
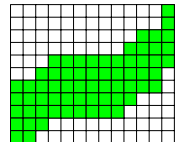
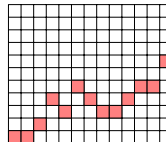
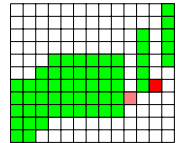
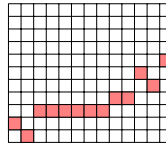
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# Randomized Search



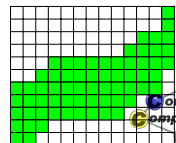
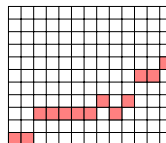
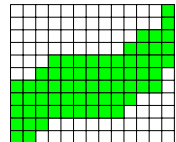
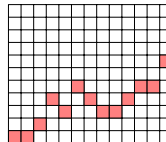
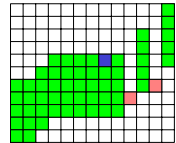
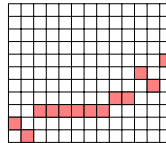
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# Randomized Search



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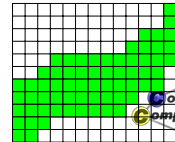
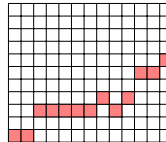
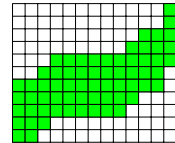
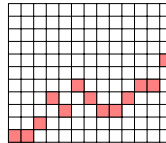
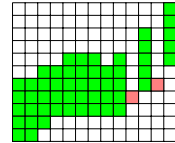
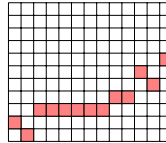




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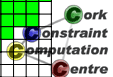
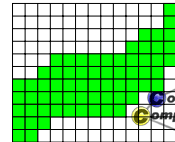
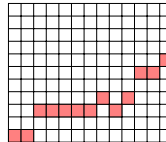
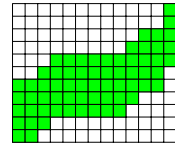
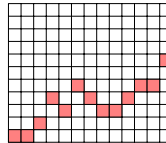
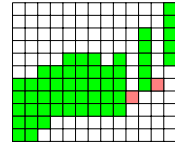
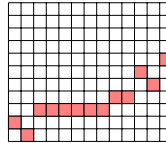




# Randomized Search



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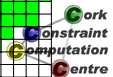
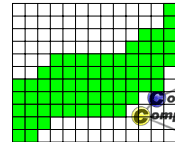
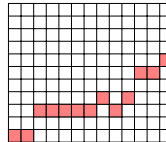
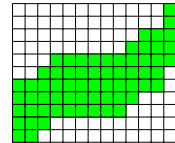
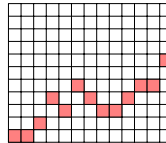
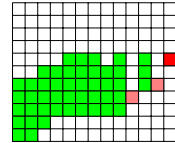
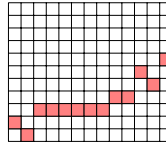




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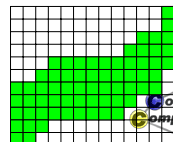
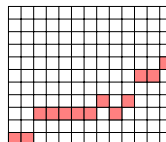
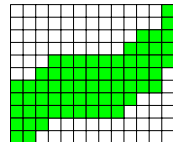
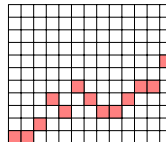
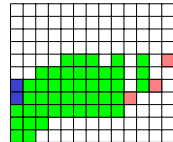
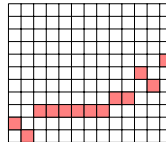
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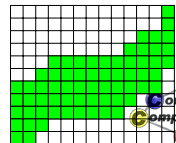
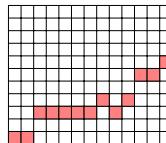
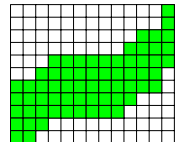
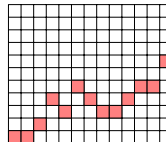
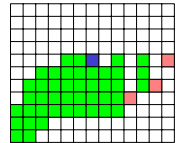
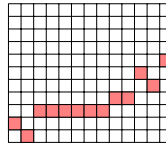
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# Randomized Search



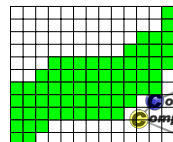
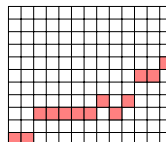
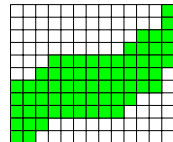
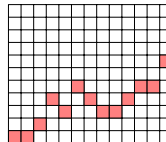
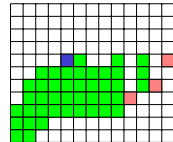
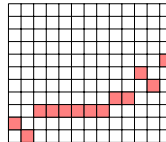
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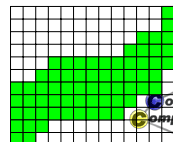
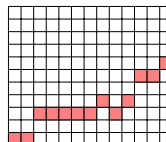
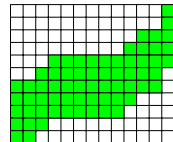
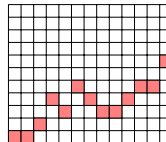
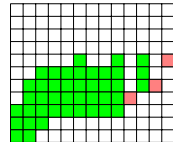
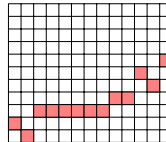
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# Randomized Search



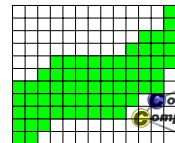
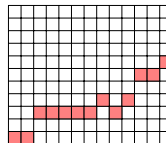
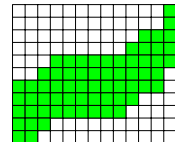
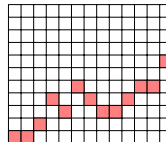
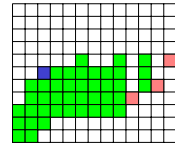
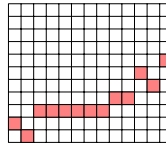
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# Randomized Search



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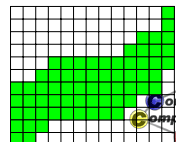
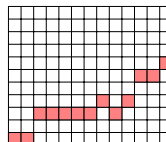
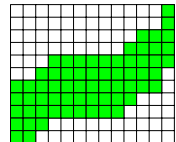
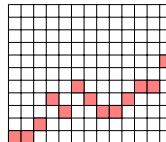
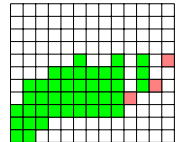
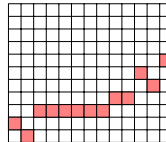




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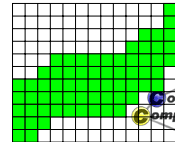
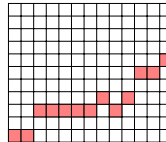
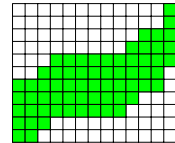
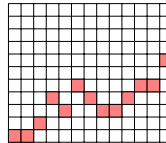
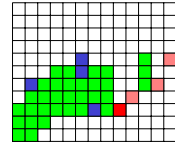
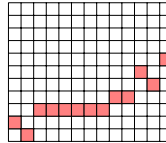
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# Randomized Search



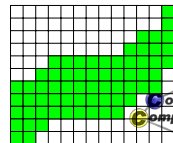
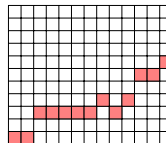
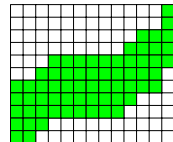
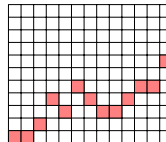
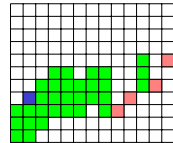
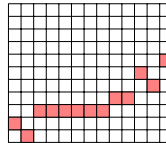
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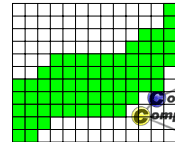
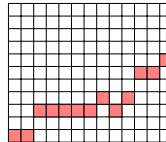
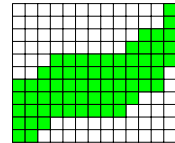
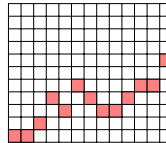
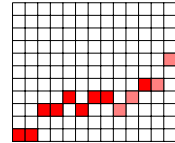
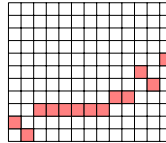
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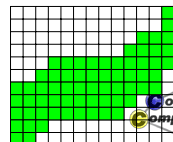
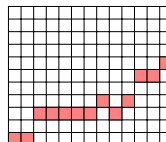
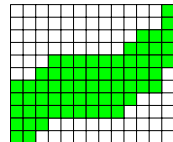
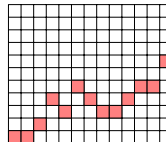
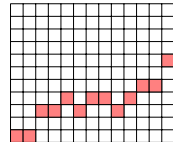
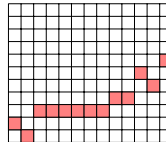
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# Randomized Search



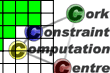
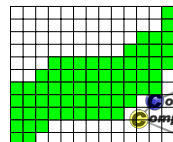
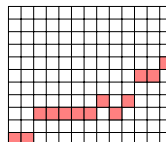
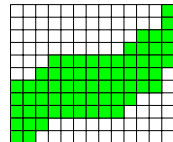
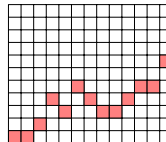
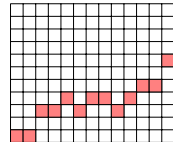
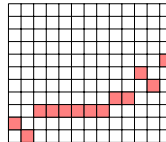
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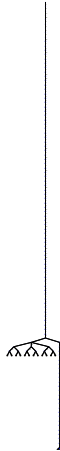
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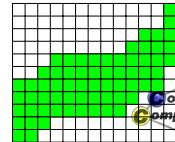
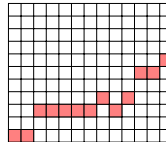
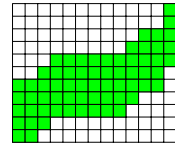
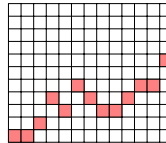
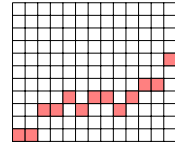
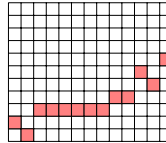
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2	8	13	14	15	16	17	18	19	20	21	22	23	24



# Randomized Search



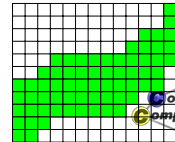
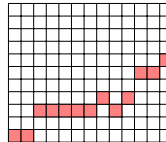
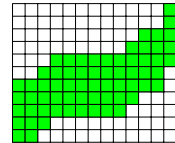
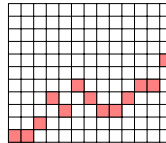
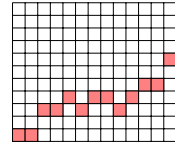
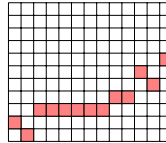
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11	9	12	8	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
10	7	11	4	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
4	3	10	5	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
2	10	4	9	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
3	8	2	1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
6	13	3	2	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
13	5	9	1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
7	2	3	18	19	20	21	22	23	24	25	26	27	28	29	30									
5	1	4	6	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
12	5	11	9	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
2	12	1	3	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
5	2	9	11	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
9	10	6	4	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
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9	3	7	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
3	7	6	2	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
7	6	1	2	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
6	2	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
7	3	2	8	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
8	11	10	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
2	8	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					



# Randomized Search



1	4	8	16	31	57
8	1	5	12	23	41
11	9	12	8	15	27
10	7	11	4	20	36
4	3	10	5	17	30
2	10	4	9	14	25
3	8	2	1	13	22
6	13	3	2	11	19
13	5	9	1	16	28
7	2	3	18	24	42
5	1	4	6	12	21
12	5	11	9	14	25
2	12	1	3	10	18
5	2	9	11	16	28
9	10	6	4	13	22
4	9	6	7	12	21
10	12	7	11	16	28
12	11	2	1	13	22
6	11	7	5	14	25
1	8	5	12	23	41
3	6	7	16	30	54
9	6	2	1	13	22
9	3	7	1	13	22
3	7	6	2	11	19
7	6	1	2	13	22
6	2	13	1	13	22
7	3	2	8	14	25
8	11	10	1	13	22
2	8	13	1	13	22

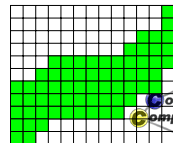
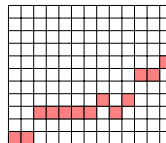
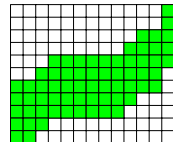
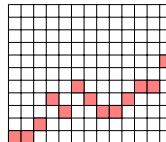
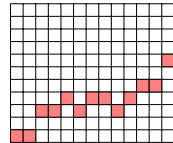
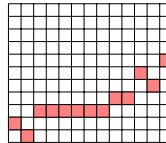




# Randomized Search



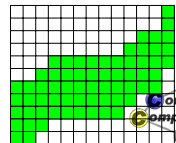
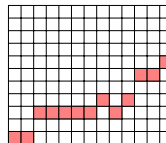
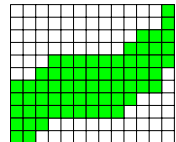
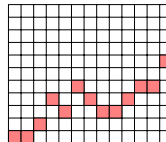
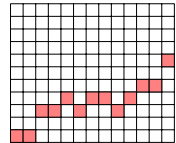
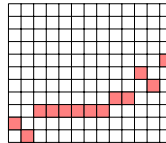
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10	7	11	4	17	31	55	100
4	3	10	5	14	25	44	80
2	10	4	9	16	29	52	95
3	8	2	1	13	24	43	78
6	13	3	2	11	20	36	65
13	5	9	1	12	22	40	73
7	2	3	18	33	60	109	199
5	1	4	6	11	20	36	65
12	5	11	9	16	29	52	95
2	12	1	3	6	11	20	36
5	2	9	11	20	36	65	119
9	10	6	4	13	24	43	78
4	9	6	7	13	24	43	78
10	12	7	11	20	36	65	119
12	11	2	1	13	24	43	78
6	11	7	5	10	18	33	60
1	8	5	1	11	20	36	65
3	6	7	11	20	36	65	119
9	6	2	7	13	24	43	78
9	3	7	1	11	20	36	65
3	7	6	2	11	20	36	65
7	6	1	2	11	20	36	65
6	2	13	1	11	20	36	65
7	3	2	8	15	27	48	87
8	11	10	1	11	20	36	65
2	8	13	1	11	20	36	65



# Randomized Search



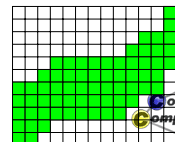
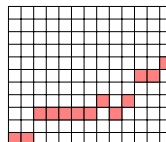
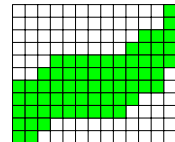
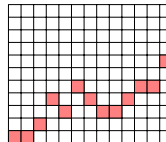
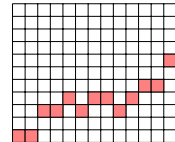
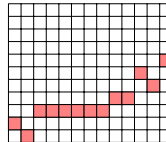
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10	7	11	4	8	16	32	64
4	3	10	5	10	20	40	80
2	10	4	9	18	36	72	144
3	8	2	1	2	4	8	16
6	13	3	2	4	8	16	32
13	5	9	1	2	4	8	16
7	2	3	18	36	72	144	288
5	1	4	8	16	32	64	128
12	5	11	9	18	36	72	144
2	12	1	3	6	12	24	48
5	2	9	11	22	44	88	176
9	10	6	4	8	16	32	64
4	9	6	7	14	28	56	112
10	12	7	1	2	4	8	16
12	11	2	6	12	24	48	96
6	11	7	5	10	20	40	80
1	8	5	1	2	4	8	16
3	6	7	16	32	64	128	256
9	6	2	7	14	28	56	112
9	3	7	1	2	4	8	16
3	7	6	2	4	8	16	32
7	6	1	2	4	8	16	32
6	2	13	1	2	4	8	16
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2	8	13	1	2	4	8	16



# Randomized Search



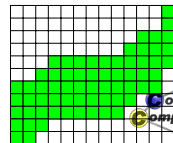
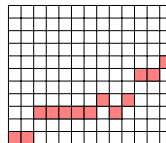
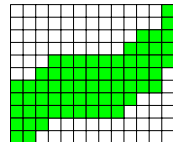
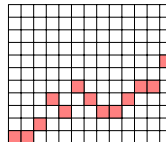
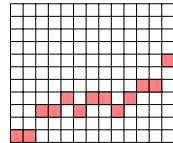
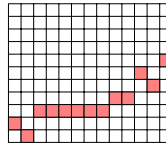
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10	7	11	4	2	1	1	1	1	1
4	3	10	5	2	1	1	1	1	1
2	10	4	9	4	2	1	1	1	1
3	8	2	1	1	1	1	1	1	1
6	13	3	2	1	1	1	1	1	1
13	5	9	1	1	1	1	1	1	1
7	2	3	18	9	4	2	1	1	1
5	1	4	6	3	2	1	1	1	1
12	5	11	9	4	2	1	1	1	1
2	12	1	3	2	1	1	1	1	1
5	2	9	11	6	3	2	1	1	1
9	10	6	4	2	1	1	1	1	1
4	9	6	7	4	2	1	1	1	1
10	12	7	4	2	1	1	1	1	1
12	11	2	6	3	2	1	1	1	1
6	11	7	5	3	2	1	1	1	1
1	8	5	4	2	1	1	1	1	1
3	6	7	10	5	3	2	1	1	1
9	6	2	7	4	2	1	1	1	1
9	3	7	1	1	1	1	1	1	1
3	7	6	2	1	1	1	1	1	1
7	6	1	2	1	1	1	1	1	1
6	2	13	7	4	2	1	1	1	1
7	3	2	8	4	2	1	1	1	1
8	11	10	6	3	2	1	1	1	1
2	8	13	7	4	2	1	1	1	1



# Randomized Search



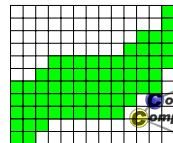
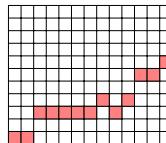
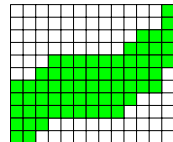
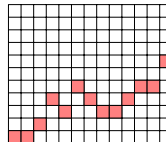
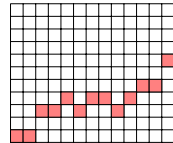
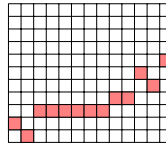
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10	7	11	4	2	1
4	3	10	5	2	1
2	10	4	9	2	1
3	8	2	1	2	1
6	13	3	2	1	1
13	5	9	1	2	1
7	2	3	18	2	1
5	1	4	8	2	1
12	5	11	9	2	1
2	12	1	3	2	1
5	2	9	11	2	1
9	10	6	4	2	1
4	9	6	7	2	1
10	12	7	2	1	1
12	11	2	6	2	1
6	11	7	5	2	1
1	8	5	2	1	1
3	6	7	10	2	1
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9	3	7	2	1	1
3	7	6	2	1	1
7	6	1	2	1	1
6	2	13	3	2	1
7	3	2	1	2	1
8	11	10	2	1	1
2	8	13	7	2	1



# Randomized Search



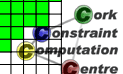
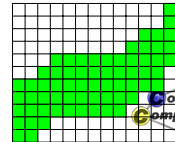
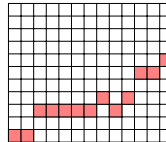
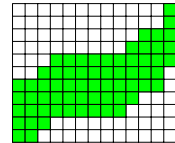
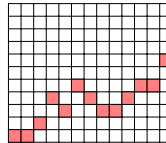
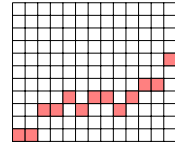
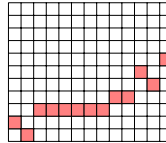
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10	7	11	4	8	16
4	3	10	5	10	20
2	10	4	9	18	36
3	8	2	1	2	4
6	13	3	2	4	8
13	5	9	1	2	4
7	2	3	18	36	72
5	1	4	8	16	32
12	5	11	9	18	36
2	12	1	3	6	12
5	2	9	11	22	44
9	10	6	4	8	16
4	9	6	7	14	28
10	12	7	1	2	4
12	11	2	6	12	24
6	11	7	5	10	20
1	8	5	10	20	40
3	6	7	16	32	64
9	6	2	7	14	28
9	3	7	14	28	56
3	7	6	2	4	8
7	6	1	2	4	8
6	2	13	3	6	12
7	3	2	8	16	32
8	11	10	20	40	80
2	8	13	7	14	28



# Randomized Search



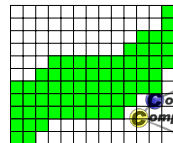
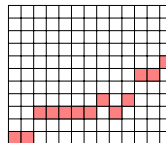
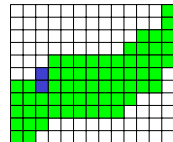
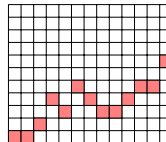
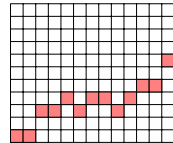
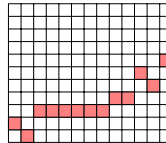
1	4	8	16	31	57
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11	9	12	8	15	27
10	7	11	4	20	37
4	3	10	5	17	32
2	10	4	9	14	25
3	8	2	1	13	22
6	13	3	2	11	19
13	5	9	1	16	30
7	2	3	18	24	40
5	1	4	6	10	18
12	5	11	9	14	25
2	12	1	3	15	27
5	2	9	11	16	30
9	10	6	4	13	22
4	9	6	7	12	21
10	12	7	1	13	22
12	11	2	6	10	18
6	11	7	5	14	25
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9	6	2	7	12	21
9	3	7	2	11	19
3	7	6	2	11	19
7	6	1	2	11	19
6	2	13	3	15	27
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# Randomized Search



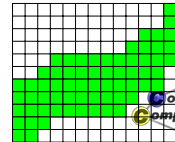
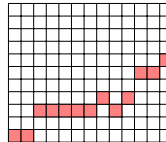
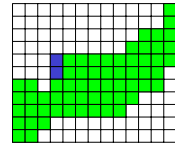
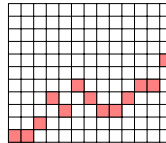
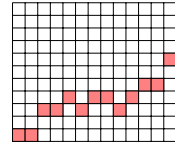
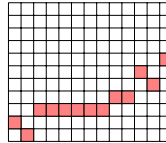
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2	10	4	9	11	17
3	8	2	1	13	18
6	13	3	2	10	19
13	5	9	1	12	20
7	2	3	18	11	21
5	1	4	6	13	22
12	5	11	9	10	23
2	12	1	3	11	24
5	2	9	11	10	25
9	10	6	4	13	26
4	9	6	7	12	27
10	12	7	1	13	28
12	11	2	6	10	29
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9	3	7	2	10	34
3	7	6	2	11	35
7	6	1	2	13	36
6	2	13	3	10	37
7	3	2	8	11	38
8	11	10	3	12	39
2	8	13	7	10	40



# Randomized Search



1	4	8	16	9	11
8	1	5	12	4	10
11	9	12	8	10	13
10	7	11	4	13	12
4	3	10	5	11	13
2	10	4	9	11	13
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3	6	7	10	11	13
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9	3	7	2	11	13
3	7	6	2	11	13
7	6	1	2	11	13
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8	11	10	3	11	13
2	8	13	7	11	13

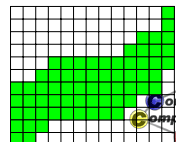
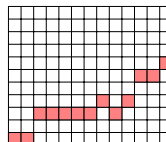
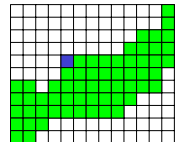
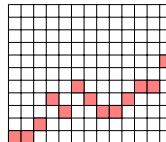
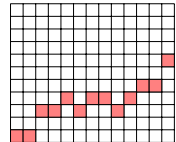
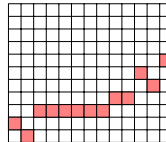




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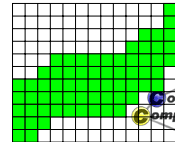
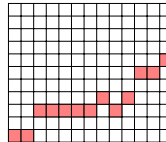
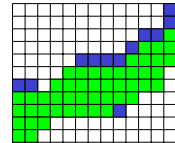
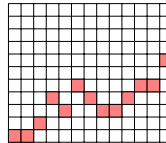
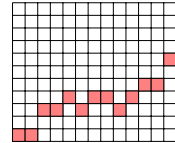
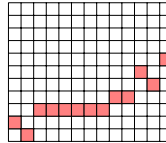
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10	7	11	4		
4	3	10	5		
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3	8	2	1		
6	13	3	2		
13	5	9	1		
7	2	3	18		
5	1	4	6		
12	5	11	9		
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5	2	9	11		
9	10	6	4		
4	9	6	7		
10	12	7	1		
12	11	2	6		
6	11	7	5		
1	8	5	6		
3	6	7	10		
9	6	2	7		
9	3	7	2		
3	7	6	2		
7	6	1	2		
6	2	13	3		
7	3	2	8		
8	11	10	3		
2	8	13	7		



# Randomized Search



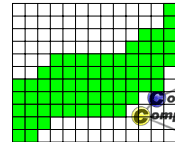
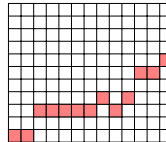
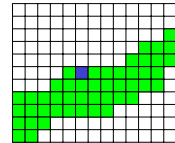
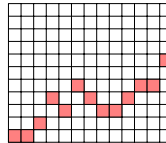
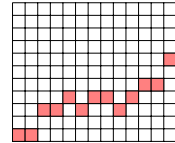
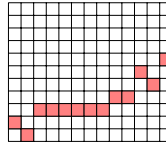
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11	9	12	8	5	...	
10	7	11	4	9	...	
4	3	10	5	...		
2	10	4	9	...		
3	8	2	1	...		
6	13	3	2	...		
13	5	9	1	...		
7	2	3	18	...		
5	1	4	6	...		
12	5	11	9	...		
2	12	1	3	...		
5	2	9	11	...		
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3	6	7	10	...		
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9	3	7	2	...		
3	7	6	2	...		
7	6	1	2	...		
6	2	13	3	...		
7	3	2	8	...		
8	11	10	3	...		
2	8	13	7	...		



# Randomized Search



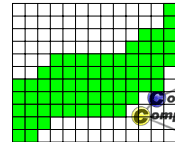
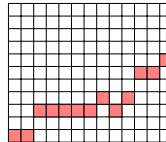
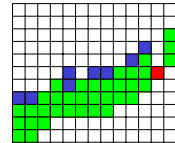
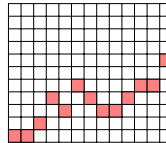
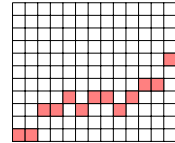
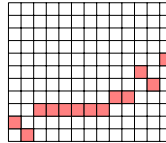
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2	10	4	9	11	12
3	8	2	1	6	5
6	13	3	2	11	12
13	5	9	1	11	12
7	2	3	10	11	12
5	1	4	6	11	12
12	5	11	9	11	12
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9	3	7	2	11	12
3	7	6	2	11	12
7	6	1	2	11	12
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8	11	10	3	11	12
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# Randomized Search



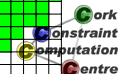
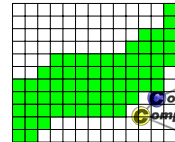
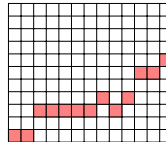
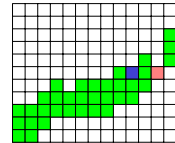
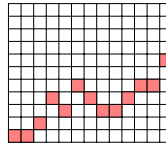
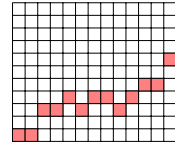
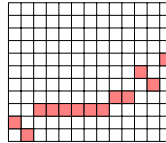
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# Randomized Search



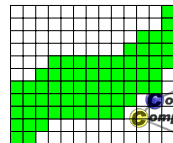
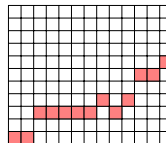
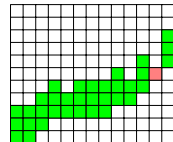
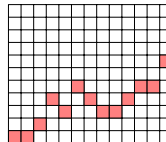
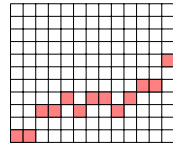
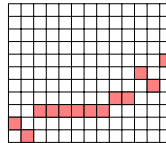
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7	3	2	8	11	10	9	8	7	6	5
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# Randomized Search



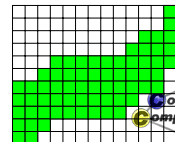
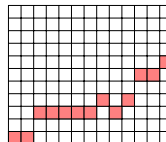
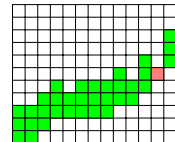
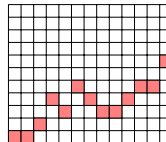
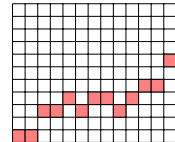
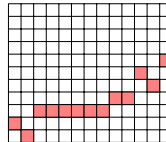
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# Randomized Search



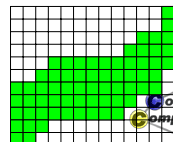
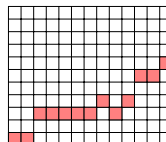
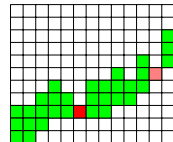
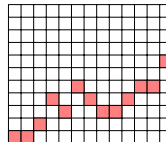
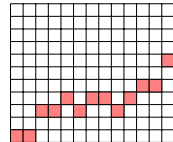
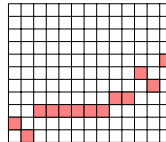
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2	8	13	7	11	12



# Randomized Search



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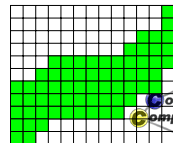
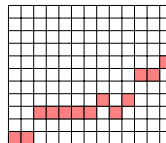
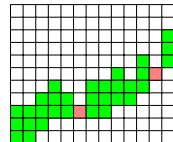
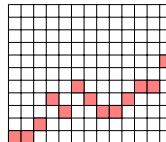
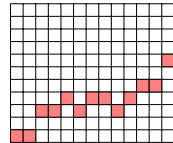
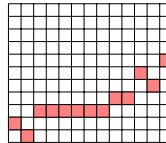




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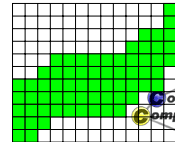
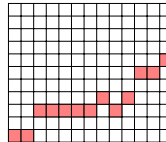
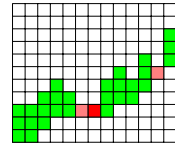
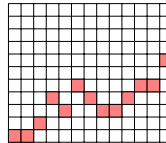
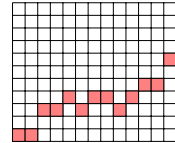
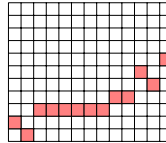
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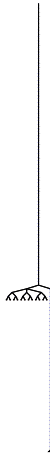
# Randomized Search



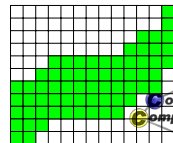
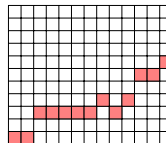
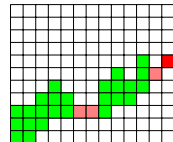
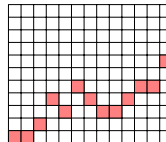
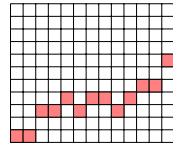
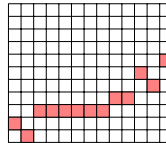
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7	6	1	2	11	12
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# Randomized Search



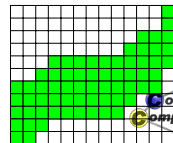
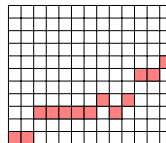
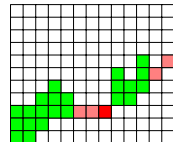
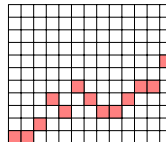
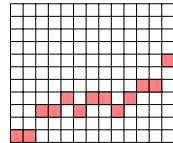
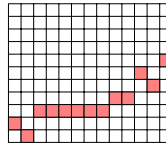
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3	7	6	2	10	11
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# Randomized Search



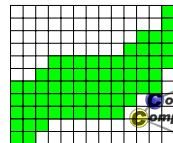
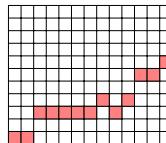
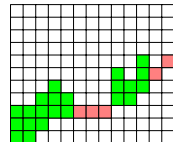
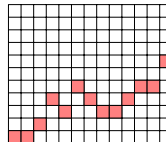
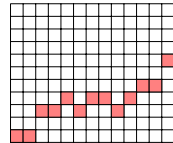
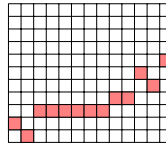
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# Randomized Search



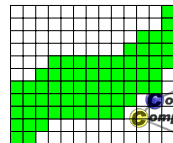
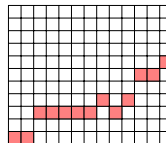
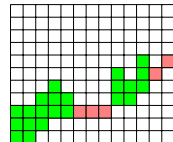
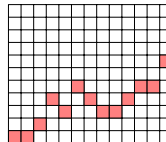
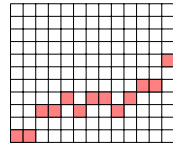
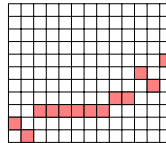
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7	6	1	2	1	36
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# Randomized Search



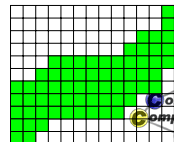
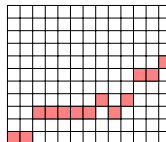
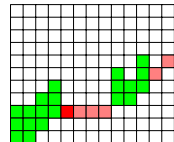
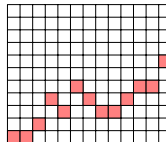
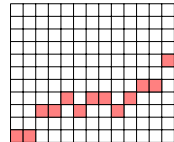
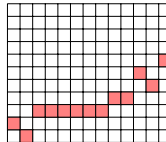
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13	5	9	1	7	9
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# Randomized Search



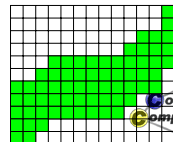
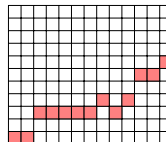
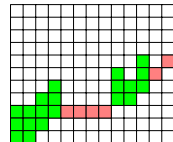
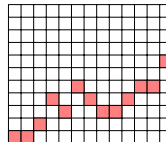
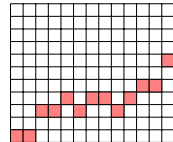
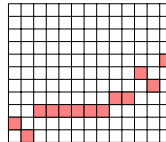
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13	5	9	1	7	9
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# Randomized Search



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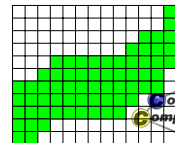
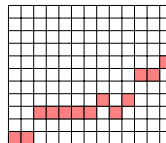
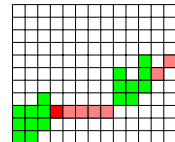
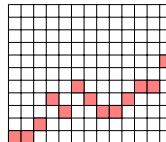
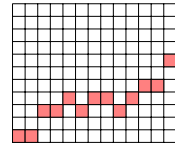
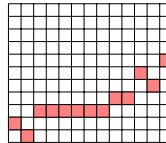




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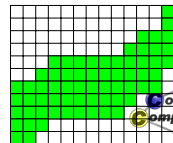
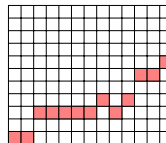
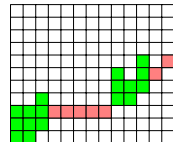
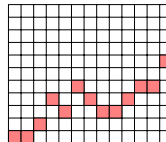
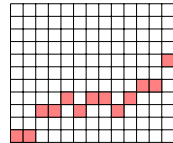
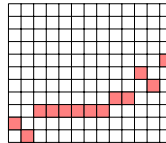
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# Randomized Search



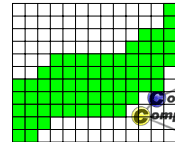
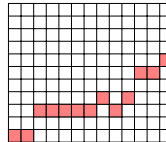
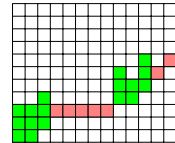
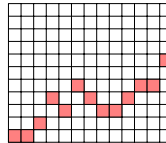
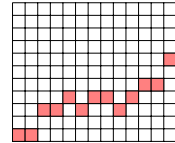
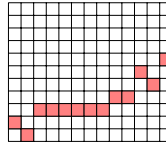
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# Randomized Search



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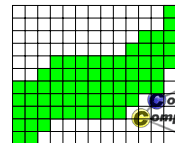
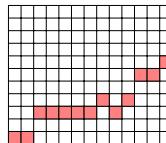
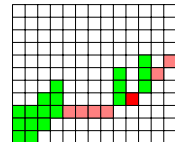
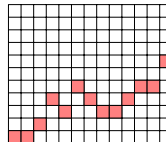
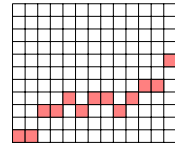
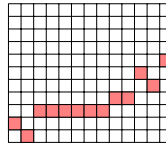




# Randomized Search



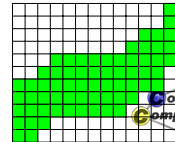
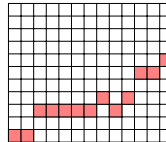
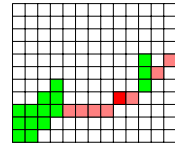
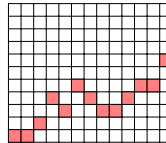
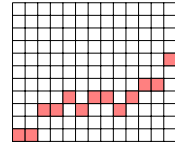
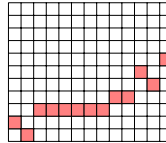
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6	2	13	3	14	13
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8	11	10	3	14	13
2	8	13	7	14	13



# Randomized Search



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13	5	9	1	7	9
7	2	3	18	1	10
5	1	4	6	8	11
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3	7	6	2	1	24
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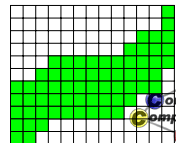
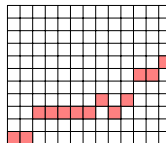
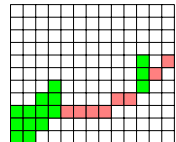
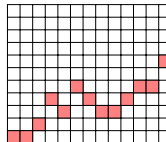
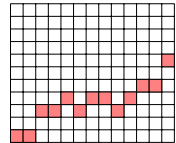
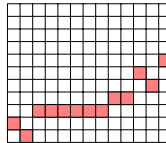




# Randomized Search



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6	13	3	2	10	1
13	5	9	1	7	1
7	2	3	18	1	1
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12	5	11	9	8	1
2	12	1	3	7	1
5	2	9	11	6	1
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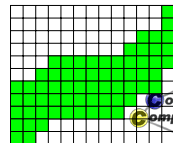
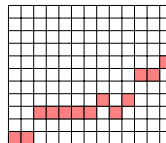
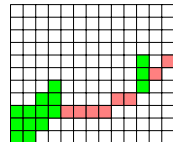
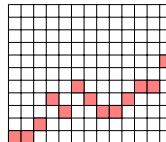
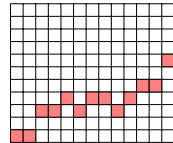
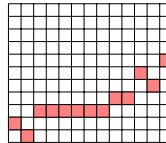




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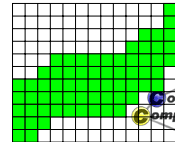
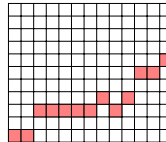
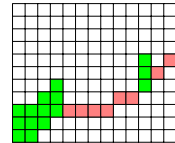
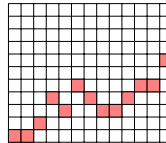
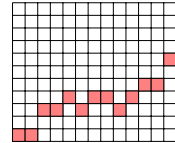
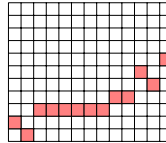
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# Randomized Search



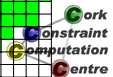
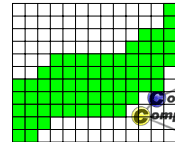
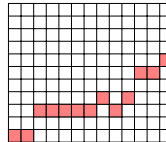
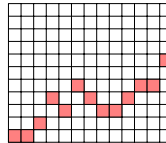
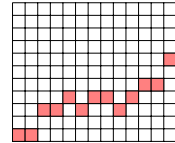
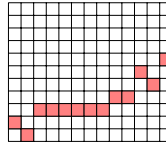
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# Randomized Search



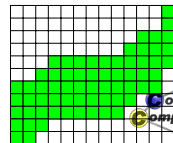
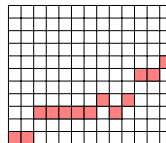
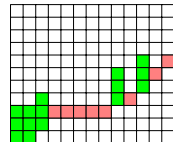
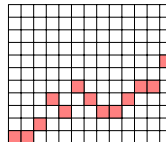
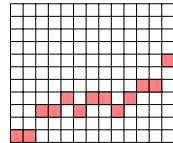
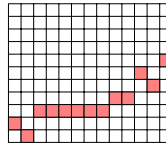
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# Randomized Search



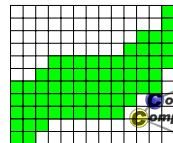
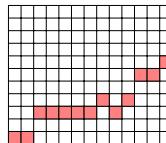
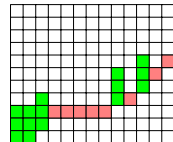
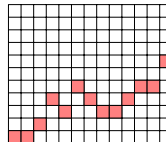
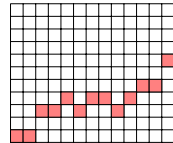
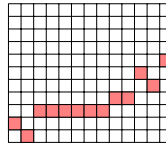
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# Randomized Search



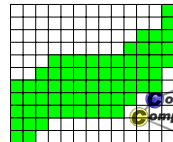
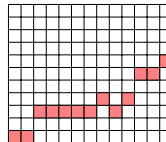
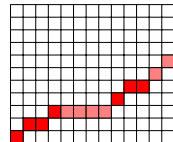
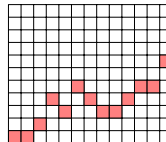
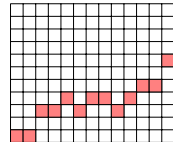
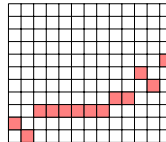
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# Randomized Search



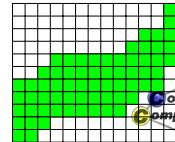
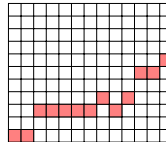
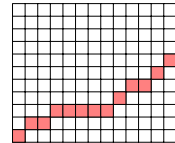
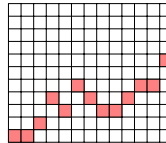
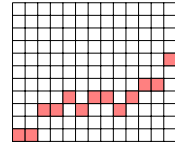
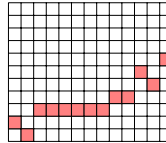
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3	8	2	1	6	4
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13	5	9	1	7	2
7	2	3	18	1	2
5	1	4	6	8	3
12	5	11	9	8	2
2	12	1	3	7	2
5	2	9	11	6	3
9	10	6	4	5	2
4	9	6	7	2	1
10	12	7	1	3	2
12	11	2	6	4	3
6	11	7	5	3	2
1	8	5	6	3	2
3	6	7	10	4	2
9	6	2	7	4	2
9	3	7	2	11	3
3	7	6	2	1	2
7	6	1	2	1	2
6	2	13	3	2	2
7	3	2	8	1	2
8	11	10	3	2	2
2	8	13	7	1	2



# Randomized Search



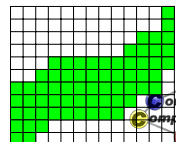
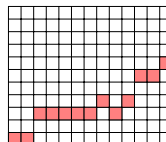
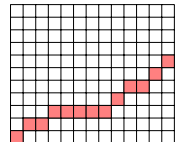
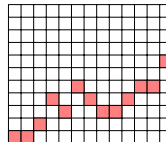
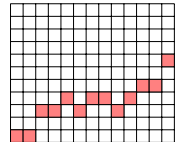
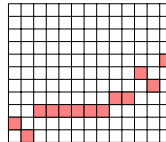
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11	9	12	8	5	10
10	7	11	4	9	12
4	3	10	5	12	11
2	10	4	9	13	11
3	8	2	1	6	11
6	13	3	2	10	11
13	5	9	1	7	11
7	2	3	10	1	11
5	1	4	6	8	11
12	5	11	9	8	11
2	12	1	3	7	11
5	2	9	11	6	11
9	10	6	4	5	11
4	9	6	7	2	11
10	12	7	1	4	11
12	11	2	6	10	11
6	11	7	5	10	11
1	8	5	6	10	11
3	6	7	10	11	11
9	6	2	7	10	11
9	3	7	2	11	11
3	7	6	2	1	11
7	6	1	2	10	11
6	2	13	3	10	11
7	3	2	8	10	11
8	11	10	3	10	11
2	8	13	7	10	11



# Randomized Search



1	4	8	16	3	11
8	1	5	12	4	20
11	9	12	4	5	17
10	7	11	4	9	14
4	3	10	5	12	25
2	10	4	9	13	18
3	8	2	1	6	15
6	13	3	2	10	22
13	5	9	1	7	23
7	2	3	18	1	24
5	1	4	6	8	19
12	5	11	9	8	21
2	12	1	3	7	26
5	2	9	11	6	27
9	10	6	4	5	16
4	9	6	7	2	28
10	12	7	1	4	29
12	11	2	6	1	30
6	11	7	5	1	31
1	8	5	6	1	32
3	6	7	16	1	33
9	6	2	7	1	34
9	3	7	2	11	35
3	7	6	2	1	36
7	6	1	2	3	37
6	2	13	3	1	38
7	3	2	8	1	39
8	11	10	3	1	40
2	8	13	7	1	41

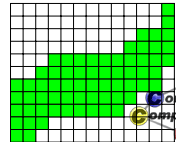
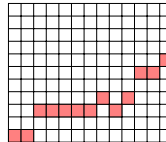
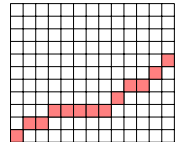
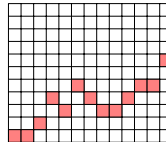
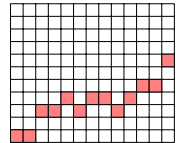
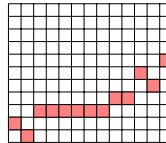




# Randomized Search



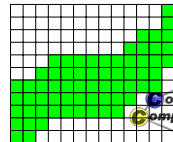
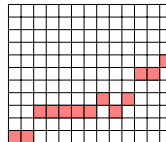
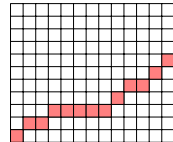
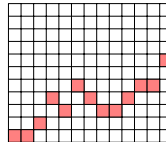
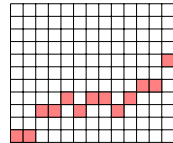
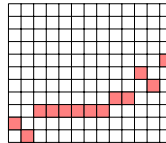
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8	1	5	12	4	21
11	9	12	4	5	22
10	7	11	4	9	23
4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	18	1	30
5	1	4	6	8	31
12	5	11	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	2	36
10	12	7	1	4	37
12	11	2	6	1	38
6	11	7	5	1	39
1	8	5	6	1	40
3	6	7	10	1	41
9	6	2	7	10	42
9	3	7	2	11	43
3	7	6	2	1	44
7	6	1	2	3	45
6	2	13	3	1	46
7	3	2	8	1	47
8	11	10	3	1	48
2	8	13	7	1	49



# Randomized Search



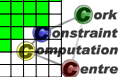
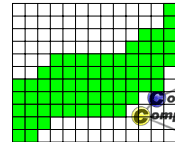
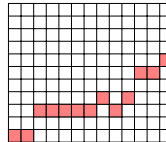
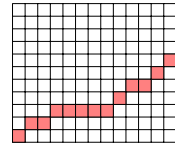
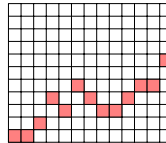
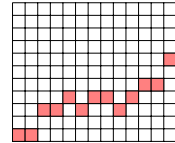
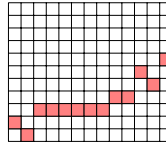
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10	7	11	4	9	7
4	3	10	5	12	5
2	10	4	9	13	2
3	8	2	1	6	1
6	13	3	2	10	6
13	5	9	1	7	13
7	2	3	18	1	2
5	1	4	6	8	1
12	5	11	9	8	1
2	12	1	3	7	2
5	2	9	11	6	1
9	10	6	4	5	1
4	9	6	7	2	1
10	12	7	1	4	2
12	11	2	6	1	1
6	11	7	5	1	1
1	8	5	6	1	1
3	6	7	10	1	1
9	6	2	7	1	1
9	3	7	2	11	1
3	7	6	2	1	1
7	6	1	2	3	1
6	2	13	3	1	1
7	3	2	8	1	1
8	11	10	3	1	1
2	8	13	7	1	1



# Randomized Search



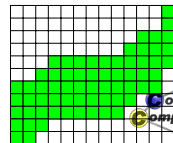
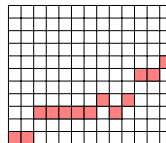
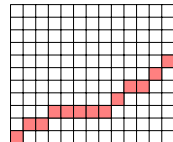
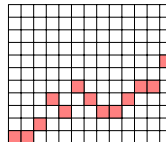
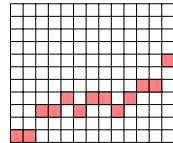
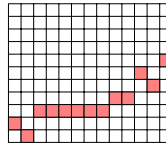
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11	9	12	4	5	3
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	1
3	8	2	1	6	1
6	13	3	2	10	1
13	5	9	1	7	2
7	2	3	18	1	2
5	1	4	6	8	1
12	5	11	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	1
4	9	6	7	2	1
10	12	7	1	4	2
12	11	2	6	10	1
6	11	7	5	2	1
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3	6	7	16	1	1
9	6	2	7	1	1
9	3	7	2	11	1
3	7	6	2	1	1
7	6	1	2	3	1
6	2	13	3	2	1
7	3	2	8	1	1
8	11	10	3	2	1
2	8	13	7	2	1



# Randomized Search



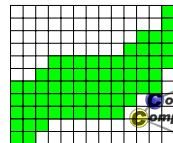
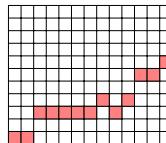
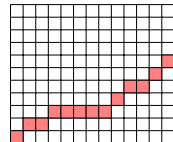
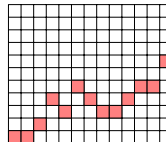
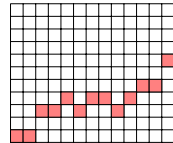
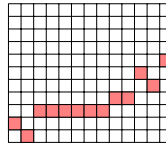
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10	7	11	4	9	4
4	3	10	5	12	5
2	10	4	9	13	6
3	8	2	1	6	7
6	13	3	2	10	8
13	5	9	1	7	9
7	2	3	18	1	10
5	1	4	6	8	11
12	5	11	9	8	12
2	12	1	3	7	13
5	2	9	11	6	14
9	10	6	4	5	15
4	9	6	7	2	16
10	12	7	1	4	17
12	11	2	6	9	18
6	11	7	5	10	19
1	8	5	6	11	20
3	6	7	16	12	21
9	6	2	7	1	22
9	3	7	2	11	23
3	7	6	2	1	24
7	6	1	2	3	25
6	2	13	3	10	26
7	3	2	8	11	27
8	11	10	3	12	28
2	8	13	7	13	29



# Randomized Search



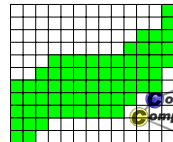
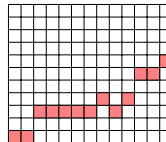
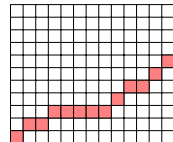
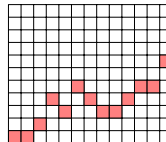
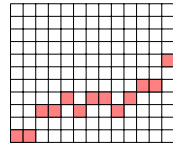
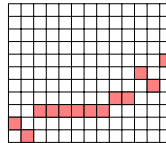
1	4	8	16	3	1
8	1	5	12	4	2
11	9	12	8	5	3
10	7	11	4	9	7
4	3	10	5	12	5
2	10	4	9	13	2
3	8	2	1	6	4
6	13	3	2	10	6
13	5	9	1	7	12
7	2	3	18	1	2
5	1	4	6	8	3
12	5	11	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	3
4	9	6	7	2	2
10	12	7	1	4	2
12	11	2	6	4	2
6	11	7	5	3	2
1	8	5	6	3	2
3	6	7	16	2	2
9	6	2	7	4	2
9	3	7	2	11	2
3	7	6	2	1	2
7	6	1	2	9	2
6	2	13	3	3	2
7	3	2	8	4	2
8	11	10	3	2	2
2	8	13	7	4	2



# Randomized Search



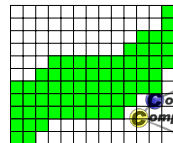
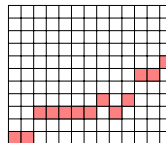
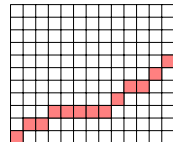
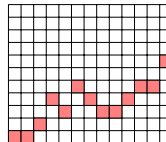
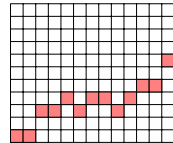
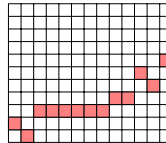
1	4	8	16	3	1
8	1	5	12	4	2
11	9	12	8	5	3
10	7	11	4	9	7
4	3	10	5	12	5
2	10	4	9	13	2
3	8	2	1	6	4
6	13	3	2	10	6
13	5	9	1	7	12
7	2	3	18	1	5
5	1	4	6	8	3
12	5	11	9	8	12
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5	2	9	11	6	5
9	10	6	4	5	3
4	9	6	7	2	4
10	12	7	1	3	7
12	11	2	6	4	5
6	11	7	5	4	3
1	8	5	6	4	3
3	6	7	16	4	3
9	6	2	7	4	3
9	3	7	2	11	3
3	7	6	2	1	4
7	6	1	2	1	4
6	2	13	3	4	3
7	3	2	8	4	3
8	11	10	3	4	3
2	8	13	7	4	3



# Randomized Search



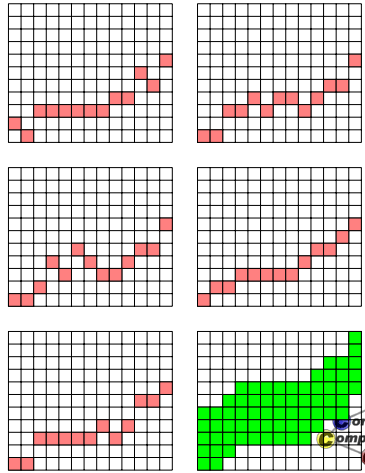
1	4	8	16	3	1
8	1	5	12	4	2
11	9	12	8	5	3
10	7	11	4	9	7
4	3	10	5	12	5
2	10	4	9	13	2
3	8	2	1	6	4
6	13	3	2	10	6
13	5	9	1	7	12
7	2	3	18	1	2
5	1	4	6	8	3
12	5	11	9	8	12
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	1
4	9	6	7	2	1
10	12	7	1	3	2
12	11	2	6	1	1
6	11	7	5	1	1
1	8	5	6	1	1
3	6	7	16	1	1
9	6	2	7	1	1
9	3	7	2	11	1
3	7	6	2	1	1
7	6	1	2	9	1
6	2	13	3	1	1
7	3	2	8	1	1
8	11	10	3	1	1
2	8	13	7	1	1



# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	2
11	9	12	8	5	2
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	2
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	2
4	9	6	7	2	2
10	12	7	1	9	2
12	11	2	6	2	2
6	11	7	5	2	2
1	8	5	6	2	2
3	6	7	11	2	2
9	6	2	7	4	2
9	3	7	2	11	2
3	7	6	2	1	2
7	6	1	2	9	2
6	2	13	4	4	2
7	3	2	8	2	2
8	11	10	3	2	2
2	8	13	7	2	2



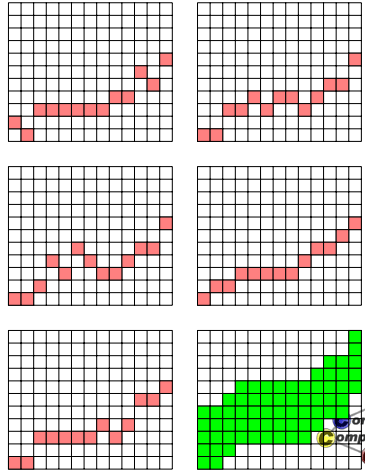
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	22
11	9	12	8	5	23
10	7	11	4	9	24
4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	13	1	30
5	1	4	6	8	31
12	5	1	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	2	36
10	12	7	1	9	37
12	11	2	6	4	38
6	11	7	5	3	39
1	8	5	6	3	40
3	6	7	11	4	41
9	6	2	7	4	42
9	3	7	2	11	43
3	7	6	2	3	44
7	6	1	2	9	45
6	2	13	4	11	46
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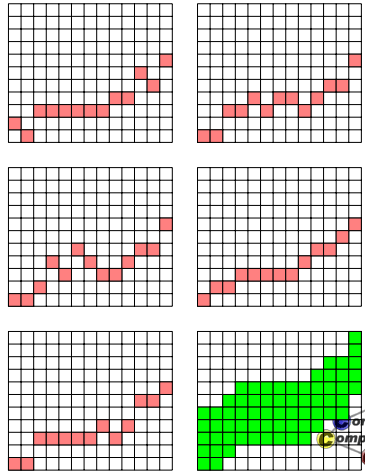
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	25
11	9	12	8	5	23
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4	3	10	5	12	22
2	10	4	9	13	24
3	8	2	1	6	23
6	13	3	2	10	24
13	5	9	1	7	22
7	2	3	13	1	23
5	1	4	6	8	24
12	5	1	9	8	21
2	12	1	3	7	23
5	2	9	11	6	24
9	10	6	4	5	23
4	9	6	7	2	24
10	12	7	1	9	22
12	11	2	6	10	23
6	11	7	5	2	24
1	8	5	6	2	23
3	6	7	11	2	24
9	6	2	7	4	23
9	3	7	2	11	24
3	7	6	2	1	23
7	6	1	2	4	24
6	2	13	4	1	23
7	3	2	8	1	24
8	11	10	3	1	23
2	8	13	7	1	24

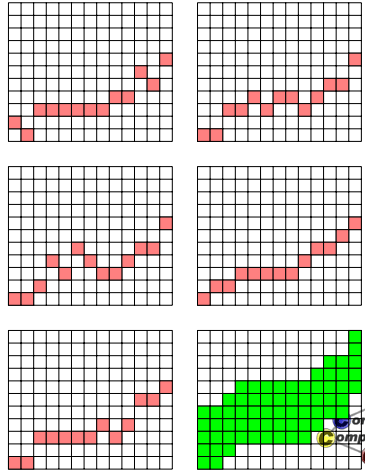


◀ Back to Start   ▶ Skip Animation

# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	25
11	9	12	8	5	23
10	7	11	4	9	24
4	3	10	5	12	22
2	10	4	9	13	24
3	8	2	1	6	23
6	13	3	2	10	22
13	5	9	1	7	24
7	2	3	13	1	23
5	1	4	6	8	24
12	5	1	9	8	23
2	12	1	3	7	25
5	2	9	11	6	25
9	10	6	4	5	25
4	9	6	7	2	24
10	12	7	1	9	24
12	11	2	6	10	24
6	11	7	5	10	23
1	8	5	6	10	23
3	6	7	11	10	23
9	6	2	7	11	23
9	3	7	2	11	23
3	7	6	2	11	23
7	6	1	2	4	23
6	2	13	4	10	23
7	3	2	8	10	23
8	11	10	3	10	23
2	8	13	7	10	23

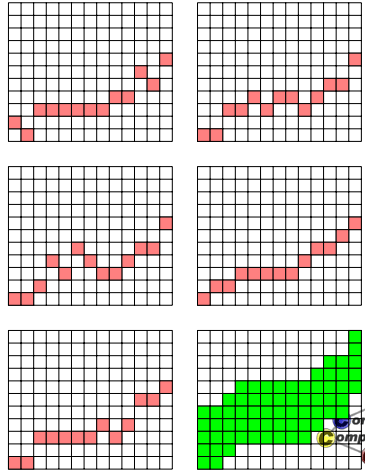


◀ Back to Start   ▶ Skip Animation

# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	25
11	9	12	8	5	23
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4	3	10	5	12	24
2	10	4	9	13	24
3	8	2	1	6	24
6	13	3	2	10	24
13	5	9	1	7	24
7	2	3	13	1	24
5	1	4	6	8	24
12	5	1	9	8	24
2	12	1	3	7	24
5	2	9	11	6	24
9	10	6	4	5	24
4	9	6	7	2	24
10	12	7	1	3	24
12	11	2	6	9	24
6	11	7	5	24	24
1	8	5	6	24	24
3	6	7	11	24	24
9	6	2	7	1	24
9	3	7	2	11	24
3	7	6	2	1	24
7	6	1	2	4	24
6	2	13	4	24	24
7	3	2	8	24	24
8	11	10	3	24	24
2	8	13	7	24	24

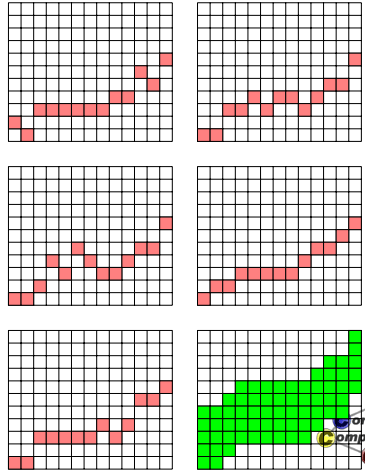


◀ Back to Start    ▶ Skip Animation

# Randomized Search



1	4	8	10	3	7
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11	9	12	8	5	2
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4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
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2	12	1	3	7	2
5	2	9	11	6	2
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4	9	6	7	2	2
10	12	7	1	3	2
12	11	2	6	10	2
6	11	7	5	2	2
1	8	5	6	2	2
3	6	7	11	2	2
9	6	2	7	1	2
9	3	7	2	11	2
3	7	6	2	1	2
7	6	1	2	4	2
6	2	13	4	2	2
7	3	2	8	2	2
8	11	10	3	2	2
2	8	13	7	2	2



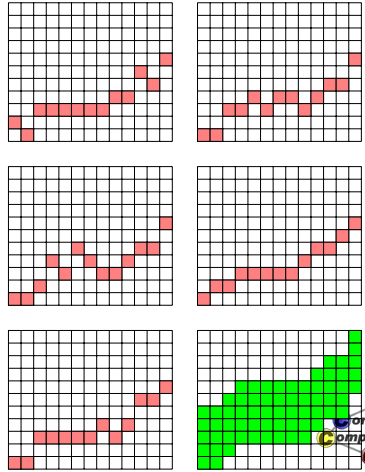
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	22
11	9	12	8	5	23
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4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	13	1	30
5	1	4	6	8	31
12	5	1	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	2	36
10	12	7	1	9	37
12	11	2	6	10	38
6	11	7	5	10	39
1	8	5	6	10	40
3	6	7	11	10	41
9	6	2	7	10	42
9	3	7	2	11	43
3	7	6	2	11	44
7	6	1	2	4	45
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7	3	2	8	10	47
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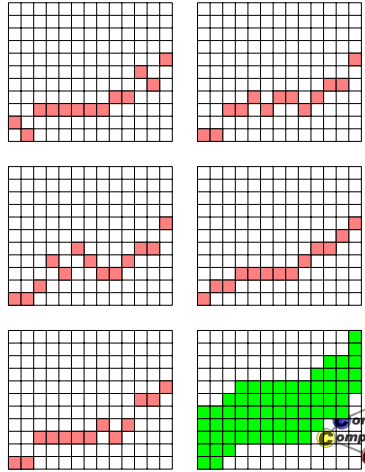
◀ Back to Start   ▶ Skip Animation



# Randomized Search

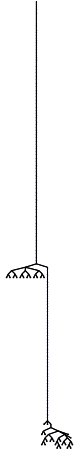


1	4	8	10	3	21
8	1	5	12	4	22
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10	7	11	4	9	24
4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	13	1	30
5	1	4	6	8	31
12	5	1	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	2	36
10	12	7	1	2	37
12	11	2	6	2	38
6	11	7	5	2	39
1	8	5	6	2	40
3	6	7	11	2	41
9	6	2	7	4	42
9	3	7	2	11	43
3	7	6	2	1	44
7	6	1	2	2	45
6	2	13	4	2	46
7	3	2	8	2	47
8	11	10	3	2	48
2	8	13	7	2	49

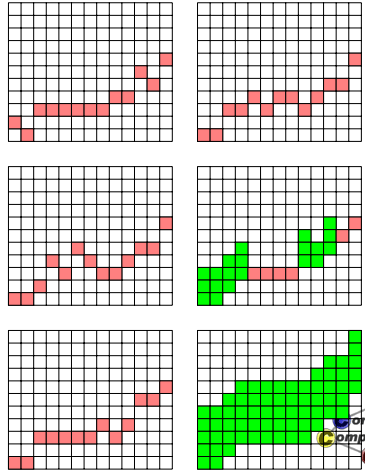


◀ Back to Start   ▶ Skip Animation

# Randomized Search



1	4	8	10	3	7	11	6	9	5	2
8	1	5	12	4	3	7	11	6	9	5
11	9	12	8	5	2	7	11	6	9	5
10	7	11	4	9	5	2	7	11	6	9
4	3	10	5	12	4	3	7	11	6	9
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3	8	2	1	6	9	5	2	7	11	6
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7	2	3	13	1	7	11	6	9	5	2
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5	2	9	11	6	9	5	2	7	11	6
9	10	6	4	5	2	7	11	6	9	5
4	9	6	7	11	6	9	5	2	7	11
10	12	7	1	6	9	5	2	7	11	6
12	11	2	6	8	11	6	9	5	2	7
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1	8	5	6	9	5	2	7	11	6	9
3	6	7	11	6	9	5	2	7	11	6
9	6	2	7	4	3	7	11	6	9	5
9	3	7	2	11	6	9	5	2	7	11
3	7	6	2	1	6	9	5	2	7	11
7	6	1	2	1	6	9	5	2	7	11
6	2	13	4	3	7	11	6	9	5	2
7	3	2	8	11	6	9	5	2	7	11
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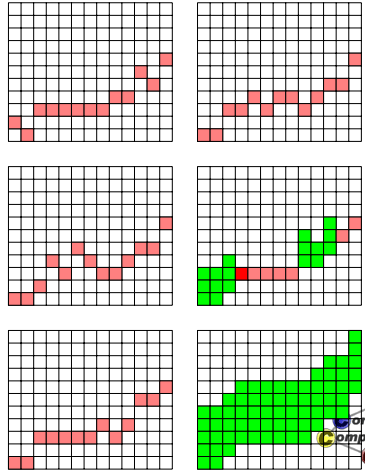
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	7
8	1	5	12	4	6
11	9	12	8	5	10
10	7	11	4	9	12
4	3	10	5	12	11
2	10	4	9	13	11
3	8	2	1	6	10
6	13	3	2	10	11
13	5	9	1	7	10
7	2	3	13	1	10
5	1	4	6	8	10
12	5	1	9	8	10
2	12	1	3	7	10
5	2	9	11	6	10
9	10	6	4	5	10
4	9	6	7	10	11
10	12	7	1	10	11
12	11	2	6	10	11
6	11	7	5	10	11
1	8	5	6	10	11
3	6	7	11	10	11
9	6	2	7	10	11
9	3	7	2	4	10
3	7	6	2	10	11
7	6	1	2	10	11
6	2	13	4	10	11
7	3	2	8	10	11
8	11	10	3	10	11
2	8	13	7	10	11



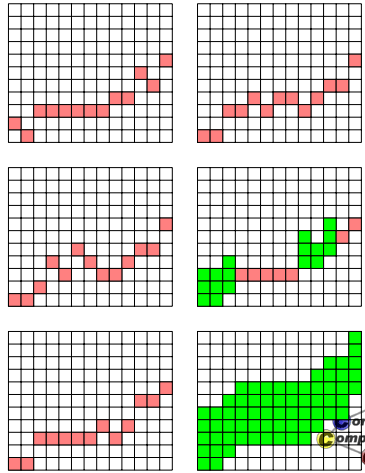
Cork  
Constraint  
Computation  
Centre

◀ Back to Start   ▶ Skip Animation

# Randomized Search



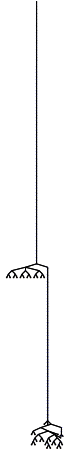
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8	1	5	12	4	6
11	9	12	8	5	10
10	7	11	4	9	12
4	3	10	5	12	11
2	10	4	9	13	12
3	8	2	1	6	10
6	13	3	2	10	11
13	5	9	1	7	12
7	2	3	13	1	12
5	1	4	6	8	10
12	5	1	9	8	11
2	12	1	3	7	10
5	2	9	11	6	10
9	10	6	4	5	11
4	9	6	7	10	11
10	12	7	1	11	12
12	11	2	6	10	11
6	11	7	5	10	11
1	8	5	6	10	11
3	6	7	11	10	11
9	6	2	7	10	11
9	3	7	2	4	10
3	7	6	2	11	10
7	6	1	2	10	11
6	2	13	4	10	11
7	3	2	8	10	11
8	11	10	3	10	11
2	8	13	7	10	11



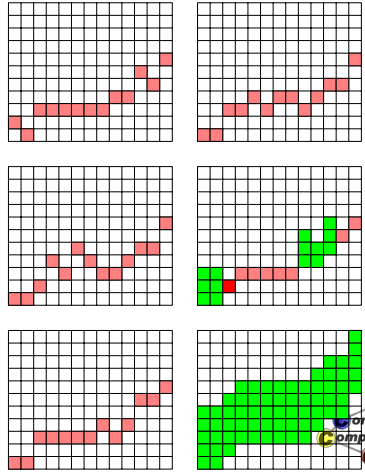
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	7	2	5	6	9
8	1	5	12	4	3	6	7	10	9
11	9	12	8	5	2	3	4	6	7
10	7	11	4	9	2	5	6	8	3
4	3	10	5	12	2	6	7	8	9
2	10	4	9	13	5	6	7	8	1
3	8	2	1	6	7	8	9	10	11
6	13	3	2	10	11	12	13	14	15
13	5	9	1	7	8	9	10	11	12
7	2	3	13	1	2	3	4	5	6
5	1	4	6	8	9	10	11	12	13
12	5	1	9	8	7	6	5	4	3
2	12	1	3	7	6	5	4	3	2
5	2	9	11	6	5	4	3	2	1
9	10	6	4	5	6	7	8	9	10
4	9	6	7	8	9	10	11	12	13
10	12	7	1	2	3	4	5	6	7
12	11	2	6	5	4	3	2	1	0
6	11	7	5	4	3	2	1	0	-1
1	8	5	6	7	8	9	10	11	12
3	6	7	11	12	13	14	15	16	17
9	6	2	7	8	9	10	11	12	13
9	3	7	2	4	5	6	7	8	9
3	7	6	2	11	12	13	14	15	16
7	6	1	2	3	4	5	6	7	8
6	2	13	4	5	6	7	8	9	10
7	3	2	8	9	10	11	12	13	14
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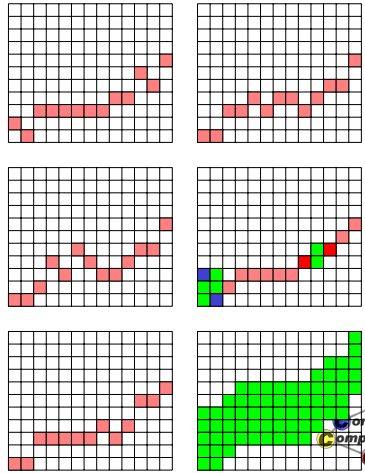
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
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11	9	12	8	5	23
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4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	13	1	30
5	1	4	6	8	31
12	5	1	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	3	36
10	12	7	1	11	37
12	11	2	6	10	38
6	11	7	5	9	39
1	8	5	6	10	40
3	6	7	11	10	41
9	6	2	7	10	42
9	3	7	2	4	43
3	7	6	2	11	44
7	6	1	2	3	45
6	2	13	4	10	46
7	3	2	8	10	47
8	11	10	3	10	48
2	8	13	7	10	49



◀ Back to Start   ▶ Skip Animation

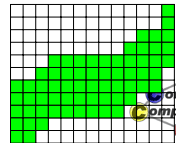
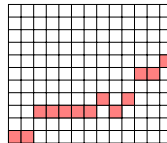
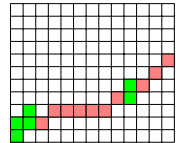
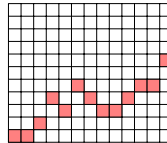
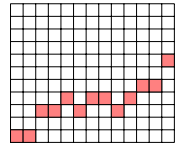
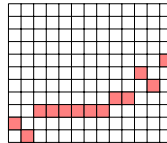




# Randomized Search



1	4	8	10	3	7
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11	9	12	8	5	2
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	2
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	2
4	9	6	7	2	2
10	12	7	1	11	2
12	11	2	6	1	2
6	11	7	5	2	2
1	8	5	6	2	2
3	6	7	11	2	2
9	6	2	7	2	2
9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
6	2	13	4	9	2
7	3	2	8	2	2
8	11	10	3	2	2
2	8	13	7	2	2



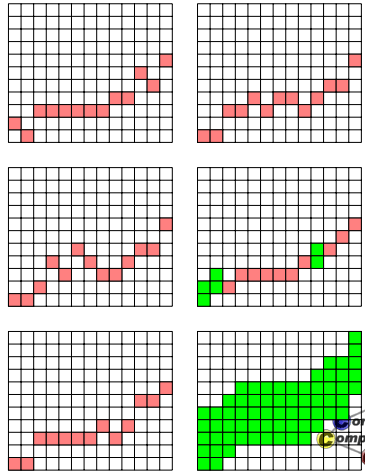
◀ Back to Start

▶ Skip Animation

# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	2
11	9	12	8	5	2
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	2
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	2
4	9	6	7	2	2
10	12	7	1	11	2
12	11	2	6	10	2
6	11	7	5	2	2
1	8	5	6	2	2
3	6	7	11	2	2
9	6	2	7	2	2
9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
6	2	13	4	9	2
7	3	2	8	2	2
8	11	10	3	2	2
2	8	13	7	2	2

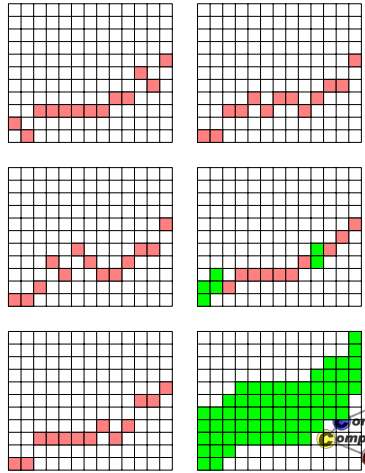


◀ Back to Start   ▶ Skip Animation

# Randomized Search



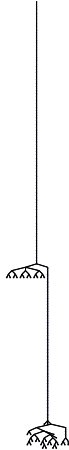
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4	3	10	5	12	8
2	10	4	9	13	6
3	8	2	1	6	11
6	13	3	2	10	9
13	5	9	1	7	11
7	2	3	13	1	11
5	1	4	6	8	10
12	5	1	9	8	11
2	12	1	3	7	10
5	2	9	11	6	10
9	10	6	4	5	11
4	9	6	7	10	11
10	12	7	1	11	9
12	11	2	6	10	9
6	11	7	5	10	9
1	8	5	6	10	11
3	6	7	11	10	9
9	6	2	7	10	11
9	3	7	2	4	10
3	7	6	2	11	10
7	6	1	2	3	11
6	2	13	4	11	10
7	3	2	8	10	11
8	11	10	3	11	9
2	8	13	7	10	11



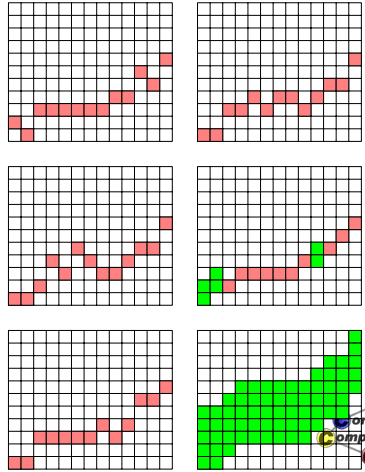
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	25
11	9	12	8	5	23
10	7	11	4	9	24
4	3	10	5	12	24
2	10	4	9	13	24
3	8	2	1	6	23
6	13	3	2	10	24
13	5	9	1	7	23
7	2	3	13	1	23
5	1	4	6	8	23
12	5	1	9	8	24
2	12	1	3	7	23
5	2	9	11	6	24
9	10	6	4	5	23
4	9	6	7	3	23
10	12	7	1	11	24
12	11	2	6	10	24
6	11	7	5	3	23
1	8	5	6	3	23
3	6	7	11	3	23
9	6	2	7	1	23
9	3	7	2	4	23
3	7	6	2	11	24
7	6	1	2	3	23
6	2	13	4	11	24
7	3	2	8	3	23
8	11	10	3	2	23
2	8	13	7	2	23



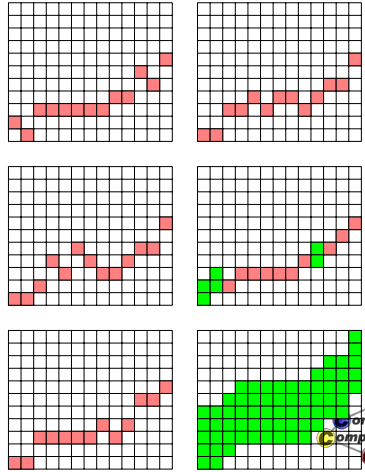
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	25
11	9	12	8	5	23
10	7	11	4	9	24
4	3	10	5	12	24
2	10	4	9	13	24
3	8	2	1	6	24
6	13	3	2	10	24
13	5	9	1	7	24
7	2	3	13	1	24
5	1	4	6	8	24
12	5	1	9	8	24
2	12	1	3	7	24
5	2	9	11	6	24
9	10	6	4	5	24
4	9	6	7	24	24
10	12	7	1	11	24
12	11	2	6	24	24
6	11	7	5	24	24
1	8	5	6	24	24
3	6	7	11	24	24
9	6	2	7	10	24
9	3	7	2	4	24
3	7	6	2	11	24
7	6	1	2	3	24
6	2	13	4	11	24
7	3	2	8	24	24
8	11	10	3	24	24
2	8	13	7	24	24



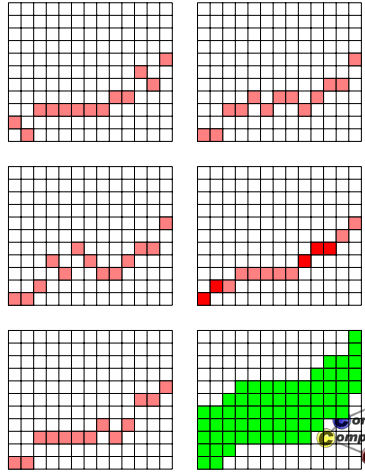
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	7
8	1	5	12	4	9
11	9	12	8	5	10
10	7	11	4	9	12
4	3	10	5	12	11
2	10	4	9	13	11
3	8	2	1	6	10
6	13	3	2	10	11
13	5	9	1	7	10
7	2	3	13	1	10
5	1	4	6	8	10
12	5	1	9	8	10
2	12	1	3	7	10
5	2	9	11	6	10
9	10	6	4	5	10
4	9	6	7	2	10
10	12	7	1	2	10
12	11	2	6	10	10
6	11	7	5	10	10
1	8	5	6	2	10
3	6	7	11	10	10
9	6	2	7	10	10
9	3	7	2	4	10
3	7	6	2	11	10
7	6	1	2	3	10
6	2	13	4	10	10
7	3	2	8	10	10
8	11	10	3	2	10
2	8	13	7	10	10



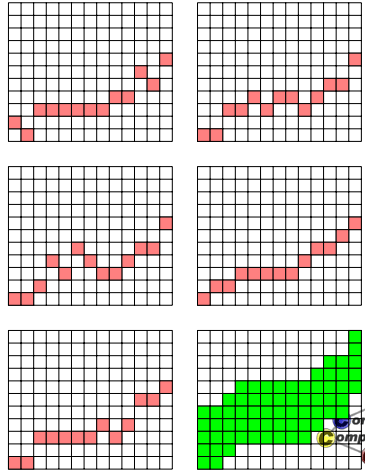
◀ Back to Start   ▶ Skip Animation



# Randomized Search



1	4	8	10	3	21
8	1	5	12	4	22
11	9	12	8	5	23
10	7	11	4	9	24
4	3	10	5	12	25
2	10	4	9	13	26
3	8	2	1	6	27
6	13	3	2	10	28
13	5	9	1	7	29
7	2	3	13	1	30
5	1	4	6	8	31
12	5	1	9	8	32
2	12	1	3	7	33
5	2	9	11	6	34
9	10	6	4	5	35
4	9	6	7	2	36
10	12	7	1	2	37
12	11	2	6	3	38
6	11	7	5	1	39
1	8	5	6	2	40
3	6	7	11	1	41
9	6	2	7	1	42
9	3	7	2	4	43
3	7	6	2	11	44
7	6	1	2	3	45
6	2	13	4	1	46
7	3	2	8	1	47
8	11	10	3	2	48
2	8	13	7	1	49

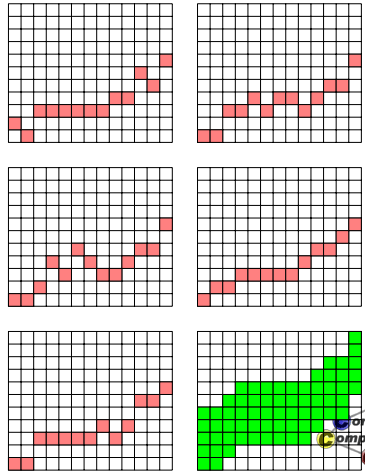


◀ Back to Start    ▶ Skip Animation

# Randomized Search



1	4	8	10	3	...
8	1	5	12	4	...
11	9	12	8	5	...
10	7	11	4	9	...
4	3	10	5	12	...
2	10	4	9	13	...
3	8	2	1	6	...
6	13	3	2	10	...
13	5	9	1	7	...
7	2	3	13	1	...
5	1	4	6	8	...
12	5	1	9	8	...
2	12	1	3	7	...
5	2	9	11	6	...
9	10	6	4	5	...
4	9	6	7	2	...
10	12	7	1	2	...
12	11	2	6	...	...
6	11	7	5	9	...
1	8	5	6	2	...
3	6	7	11	...	...
9	6	2	7	...	...
9	3	7	2	4	...
3	7	6	2	11	...
7	6	1	2	3	...
6	2	13	4	11	...
7	3	2	8	...	...
8	11	10	3	2	...
2	8	13	7	...	...

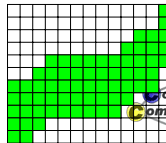
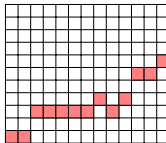
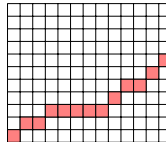
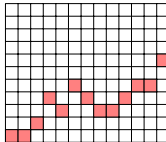
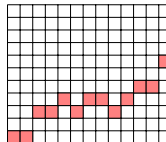
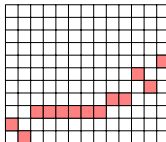


◀ Back to Start    ▶ Skip Animation

# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	2
11	9	12	8	5	2
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	2
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	2
4	9	6	7	2	2
10	12	7	1	2	2
12	11	2	6	1	2
6	11	7	5	9	2
1	8	5	6	2	2
3	6	7	11	1	2
9	6	2	7	5	2
9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
6	2	13	4	11	2
7	3	2	8	5	2
8	11	10	3	2	2
2	8	13	7	1	2



◀ Back to Start

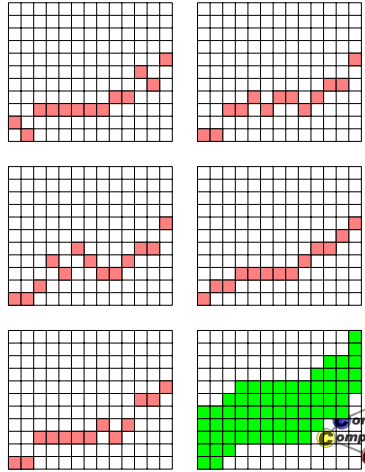
▶ Skip Animation






# Randomized Search



1	4	8	10	3	11
8	1	5	12	4	25
11	9	12	8	5	25
10	7	11	4	9	25
4	3	10	5	12	25
2	10	4	9	13	25
3	8	2	1	6	25
6	13	3	2	10	25
13	5	9	1	7	25
7	2	3	13	1	25
5	1	4	6	8	25
12	5	1	9	8	25
2	12	1	3	7	25
5	2	9	11	6	25
9	10	6	4	5	25
4	9	6	7	2	25
10	12	7	1	2	25
12	11	2	6	1	25
6	11	7	5	9	25
1	8	5	6	2	25
3	6	7	11	1	25
9	6	2	7	11	25
9	3	7	2	4	25
3	7	6	2	11	25
7	6	1	2	3	25
6	2	13	4	11	25
7	3	2	8	10	25
8	11	10	3	2	25
2	8	13	7	1	25

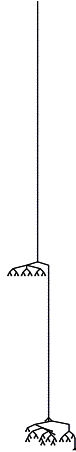


◀ Back to Start   ▶ Skip Animation

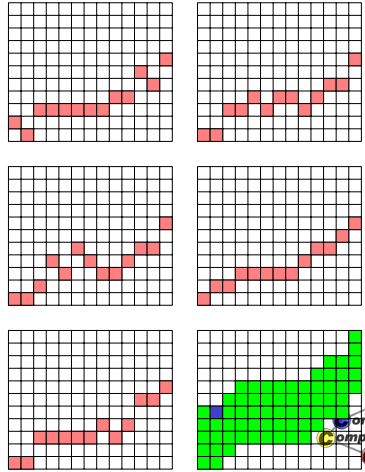




Navigation icons: back, forward, search, etc.

# Randomized Search



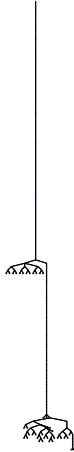
1	4	8	10	3	2
8	1	5	12	4	11
11	9	12	8	5	10
10	7	11	4	9	12
4	3	10	5	12	11
2	10	4	9	13	11
3	8	2	1	6	10
6	13	3	2	10	11
13	5	9	1	7	12
7	2	3	13	1	11
5	1	4	6	8	10
12	5	1	9	8	11
2	12	1	3	7	12
5	2	9	11	6	11
9	10	6	4	5	11
4	9	6	7	2	11
10	12	7	1	2	11
12	11	2	6	1	11
6	11	7	5	9	11
1	8	5	6	2	11
3	6	7	11	1	11
9	6	2	7	11	11
9	3	7	2	4	11
3	7	6	2	11	11
7	6	1	2	3	11
6	2	13	4	11	11
7	3	2	8	10	11
8	11	10	3	2	11
2	8	13	7	1	11



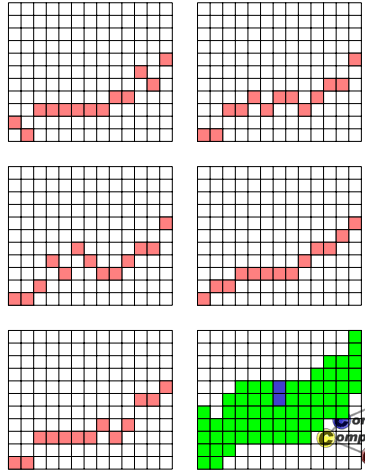
◀ Back to Start   ▶ Skip Animation



# Randomized Search



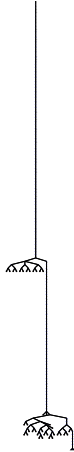
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11	9	12	8	5	2
10	7	11	4	9	2
4	3	10	5	12	2
2	10	4	9	13	2
3	8	2	1	6	2
6	13	3	2	10	2
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	2
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	2
4	9	6	7	2	2
10	12	7	1	2	2
12	11	2	6	1	2
6	11	7	5	9	2
1	8	5	6	2	2
3	6	7	11	1	2
9	6	2	7	11	2
9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
6	2	13	4	11	2
7	3	2	8	10	2
8	11	10	3	2	2
2	8	13	7	1	2



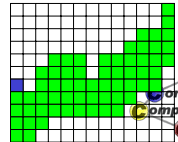
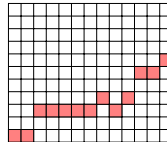
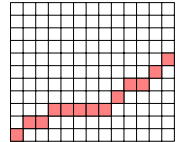
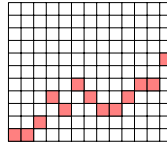
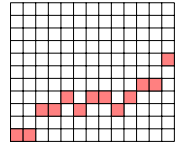
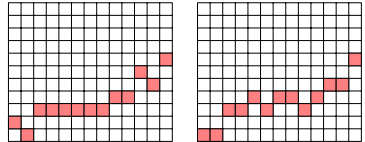
◀ Back to Start   ▶ Skip Animation



# Randomized Search



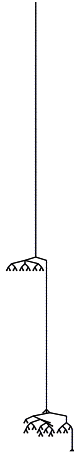
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10	7	11	4	9	3
4	3	10	5	12	6
2	10	4	9	13	5
3	8	2	1	6	7
6	13	3	2	10	4
13	5	9	1	7	8
7	2	3	13	1	6
5	1	4	6	8	7
12	5	1	9	8	3
2	12	1	3	7	4
5	2	9	11	6	7
9	10	6	4	5	3
4	9	6	7	2	1
10	12	7	1	2	3
12	11	2	6	1	3
6	11	7	5	9	3
1	8	5	6	2	4
3	6	7	11	1	2
9	6	2	7	11	3
9	3	7	2	4	1
3	7	6	2	11	3
7	6	1	2	3	4
6	2	13	4	11	3
7	3	2	8	10	4
8	11	10	3	2	4
2	8	13	7	1	3



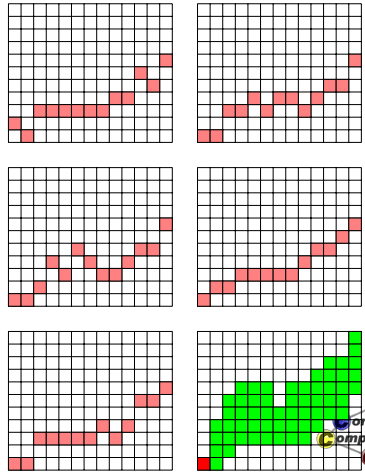
◀ Back to Start    ▶ Skip Animation



# Randomized Search

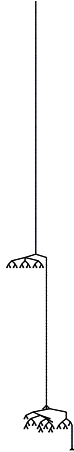


1	4	8	10	3	2
8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	2
4	3	10	5	12	1
2	10	4	9	13	6
3	8	2	1	6	5
6	13	3	2	10	7
13	5	9	1	7	4
7	2	3	13	1	6
5	1	4	6	8	3
12	5	1	9	8	2
2	12	1	3	7	4
5	2	9	11	6	3
9	10	6	4	5	7
4	9	6	7	2	1
10	12	7	1	2	3
12	11	2	6	1	3
6	11	7	5	9	2
1	8	5	6	2	4
3	6	7	11	1	5
9	6	2	7	11	4
9	3	7	2	4	1
3	7	6	2	11	5
7	6	1	2	3	4
6	2	13	4	11	7
7	3	2	8	10	5
8	11	10	3	2	4
2	8	13	7	1	5

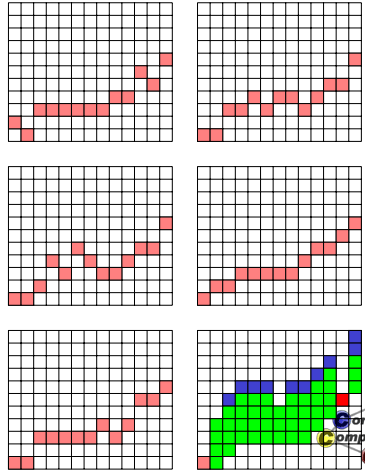


◀ Back to Start   ▶ Skip Animation

# Randomized Search

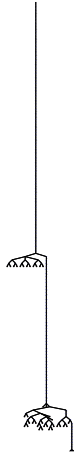


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8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	5
3	8	2	1	6	5
6	13	3	2	10	5
13	5	9	1	7	5
7	2	3	13	1	5
5	1	4	6	8	5
12	5	1	9	8	5
2	12	1	3	7	5
5	2	9	11	6	5
9	10	6	4	5	5
4	9	6	7	2	5
10	12	7	1	2	5
12	11	2	6	1	5
6	11	7	5	9	5
1	8	5	6	2	5
3	6	7	11	1	5
9	6	2	7	11	5
9	3	7	2	4	5
3	7	6	2	11	5
7	6	1	2	3	5
6	2	13	4	11	5
7	3	2	8	10	5
8	11	10	3	2	5
2	8	13	7	1	5

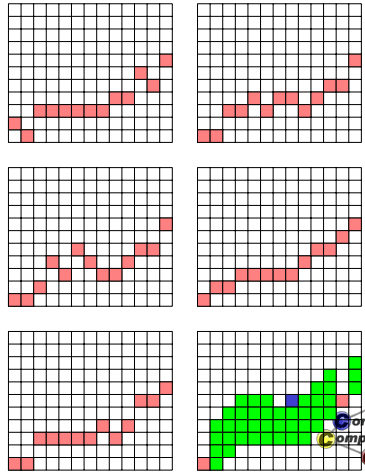


◀ Back to Start    ▶ Skip Animation

# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	5
6	13	3	2	10	4
13	5	9	1	7	2
7	2	3	13	1	2
5	1	4	6	8	3
12	5	1	9	8	2
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	11
4	9	6	7	2	2
10	12	7	1	2	2
12	11	2	6	1	2
6	11	7	5	9	2
1	8	5	6	2	2
3	6	7	11	1	2
9	6	2	7	11	2
9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
6	2	13	4	11	2
7	3	2	8	10	2
8	11	10	3	2	2
2	8	13	7	1	2

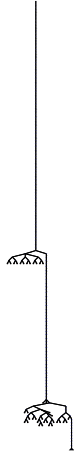


◀ Back to Start   ▶ Skip Animation

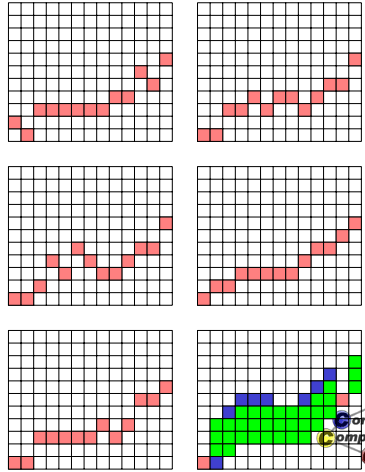
Navigation icons: back, forward, search, etc.

**Cork**  
**Constraint**  
**Computation**  
**Centre**

# Randomized Search



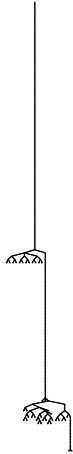
1	4	8	10	3	2
8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	-
6	13	3	2	10	-
13	5	9	1	7	-
7	2	3	13	1	-
5	1	4	6	8	-
12	5	1	9	8	-
2	12	1	3	7	-
5	2	9	11	6	-
9	10	6	4	5	3
4	9	6	7	2	-
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12	11	2	6	1	-
6	11	7	5	9	-
1	8	5	6	2	-
3	6	7	11	1	-
9	6	2	7	11	-
9	3	7	2	4	-
3	7	6	2	11	-
7	6	1	2	3	-
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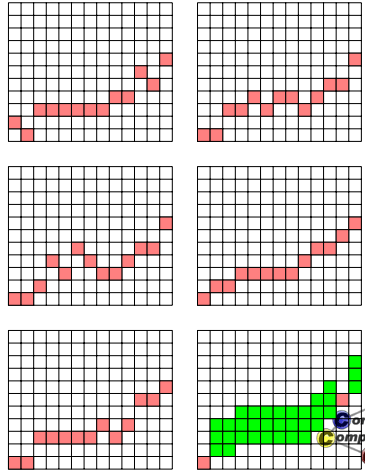
◀ Back to Start   ▶ Skip Animation



# Randomized Search

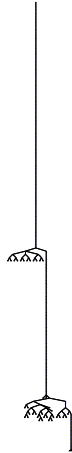


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2	10	4	9	13	8
3	8	2	1	6	5
6	13	3	2	10	11
13	5	9	1	7	12
7	2	3	13	1	12
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12	5	1	9	8	1
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9	3	7	2	4	1
3	7	6	2	11	1
7	6	1	2	3	1
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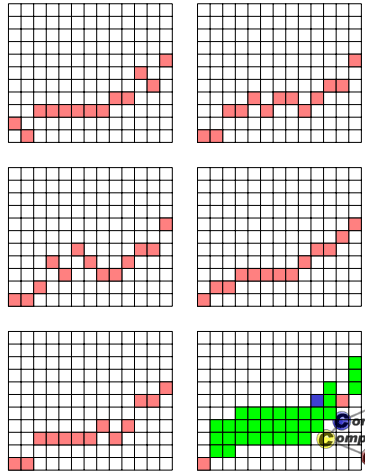


◀ Back to Start   ▶ Skip Animation

# Randomized Search



1	4	8	10	3	2
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3	8	2	1	6	5
6	13	3	2	10	11
13	5	9	1	7	2
7	2	3	13	1	2
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12	5	1	9	8	5
2	12	1	3	7	2
5	2	9	11	6	2
9	10	6	4	5	3
4	9	6	7	2	2
10	12	7	1	2	2
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9	3	7	2	4	2
3	7	6	2	11	2
7	6	1	2	3	2
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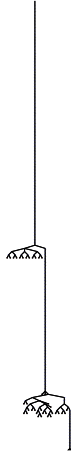


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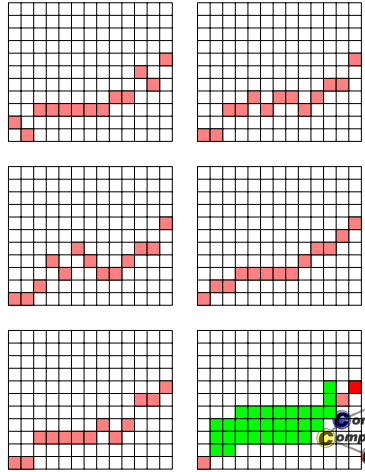




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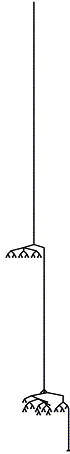


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3	8	2	1	6	13
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7	2	3	13	1	12
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12	5	1	9	8	1
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9	3	7	2	4	1
3	7	6	2	11	1
7	6	1	2	3	1
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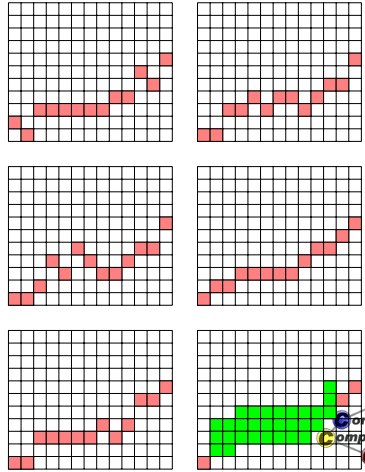


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# Randomized Search

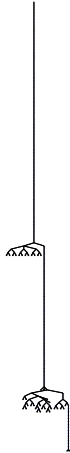


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12	11	2	6	1	13
6	11	7	5	9	12
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3	7	6	2	11	12
7	6	1	2	3	12
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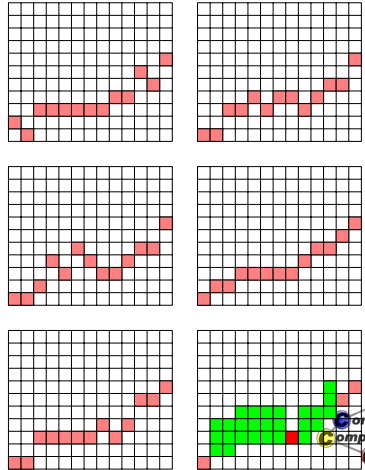


◀ Back to Start   ▶ Skip Animation

# Randomized Search



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6	13	3	2	10	11
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9	3	7	2	4	1
3	7	6	2	11	1
7	6	1	2	3	1
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7	3	2	8	10	1
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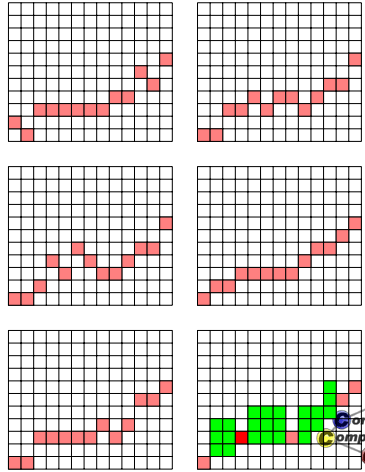


◀ Back to Start   ▶ Skip Animation

# Randomized Search



1	4	8	10	3	2
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6	13	3	2	10	11
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9	3	7	2	4	1
3	7	6	2	11	1
7	6	1	2	3	1
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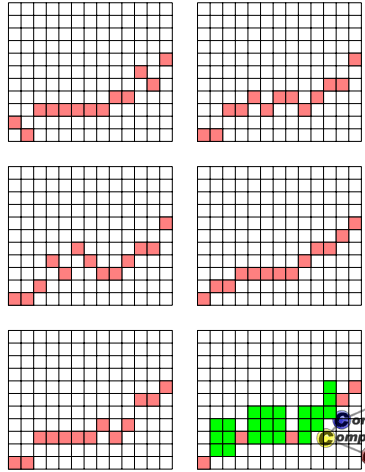


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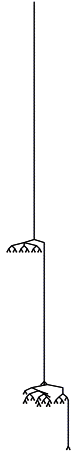


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9	3	7	2	4	-
3	7	6	2	11	-
7	6	1	2	3	-
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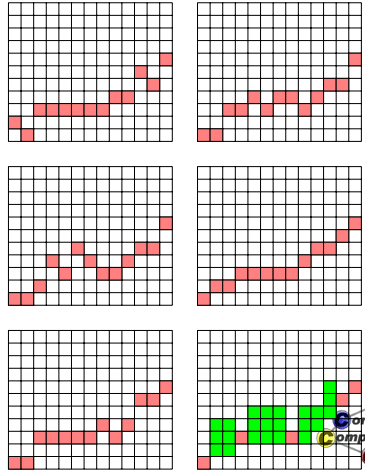


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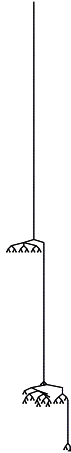
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3	8	2	1	6	13
6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	7
5	1	4	6	8	10
12	5	1	9	8	4
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7	6	1	2	3	7
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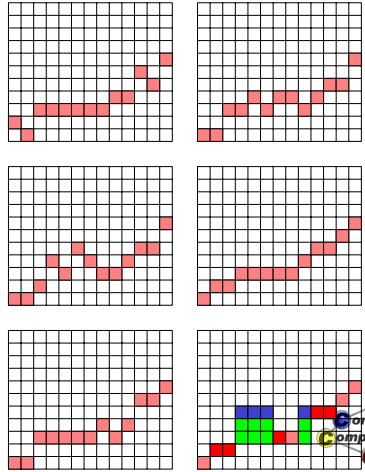
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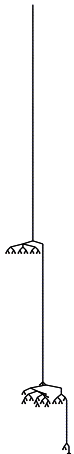
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12	5	1	9	8	4
2	12	1	3	7	-
5	2	9	11	6	3
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4	9	6	7	2	5
10	12	7	1	2	-
12	11	2	6	1	-
6	11	7	5	9	-
1	8	5	6	2	-
3	6	7	11	1	-
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9	3	7	2	4	-
3	7	6	2	11	-
7	6	1	2	3	-
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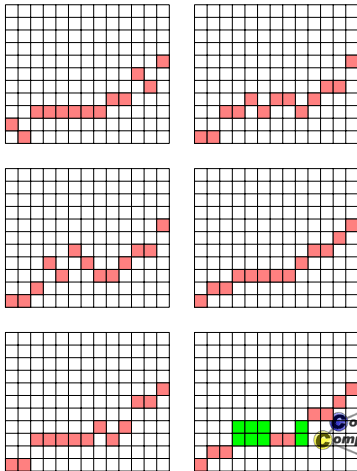
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# Randomized Search



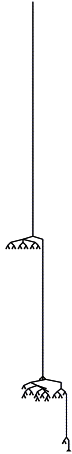
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12	5	1	9	8	4
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5	2	9	11	6	3
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12	11	2	6	1	-
6	11	7	5	9	-
1	8	5	6	2	-
3	6	7	11	1	-
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9	3	7	2	4	1
3	7	6	2	11	1
7	6	1	2	3	-
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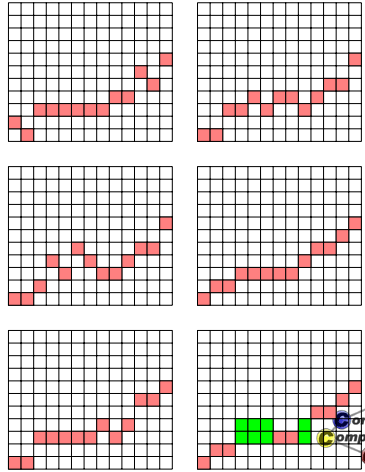
◀ Back to Start   ▶ Skip Animation



# Randomized Search



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6	13	3	2	10	11
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12	5	1	9	8	4
2	12	1	3	7	7
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9	10	6	4	5	3
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12	11	2	6	1	7
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9	3	7	2	4	6
3	7	6	2	11	7
7	6	1	2	3	7
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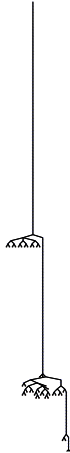


◀ Back to Start   ▶ Skip Animation

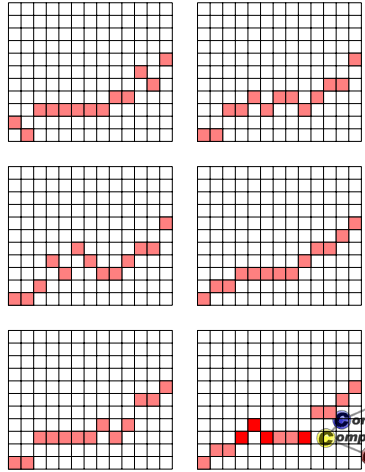
Cork  
Constraint  
Computation  
Centre

Navigation icons: back, forward, search, etc.

# Randomized Search



1	4	8	10	3	2
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11	9	12	8	5	1
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2	10	4	9	13	8
3	8	2	1	6	13
6	13	3	2	10	11
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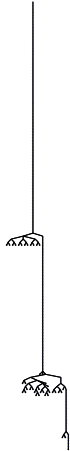


◀ Back to Start   ▶ Skip Animation

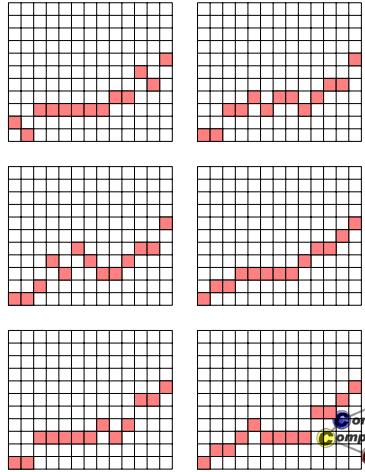
Navigation icons: back, forward, search, etc.

● Cork  
● Constraint  
● Computation  
● Centre

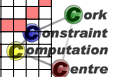
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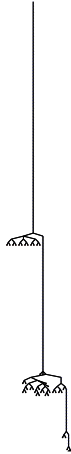
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6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	7
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12	5	1	9	8	4
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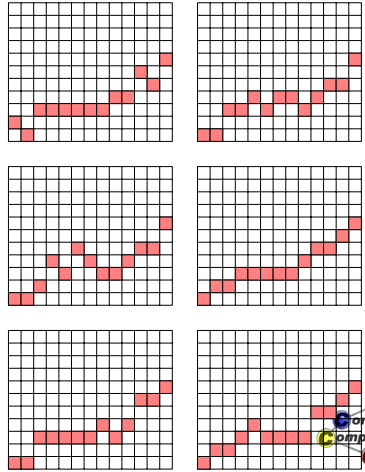
◀ Back to Start    ▶ Skip Animation



# Randomized Search



1	4	8	10	3	2
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6	13	3	2	10	11
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3	7	6	2	11	9
7	6	1	2	3	5
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2	8	13	7	1	1

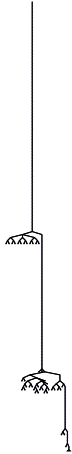


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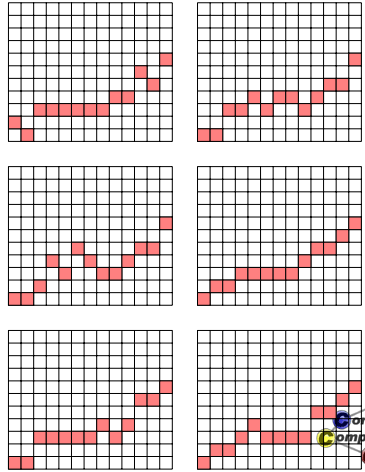
Navigation icons: back, forward, search, etc.

● Cork  
● Constraint  
● Computation  
● Centre

# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	13
6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	6
5	1	4	6	8	10
12	5	1	9	8	4
2	12	1	3	7	9
5	2	9	11	6	3
9	10	6	4	5	3
4	9	6	7	2	5
10	12	7	1	2	-
12	11	2	6	1	-
6	11	7	5	9	2
1	8	5	6	2	-
3	6	7	11	1	4
9	6	2	7	11	10
9	3	7	2	4	5
3	7	6	2	11	9
7	6	1	2	3	5
6	2	13	4	11	-
7	3	2	8	10	-
8	11	10	3	2	6
2	8	13	7	1	-

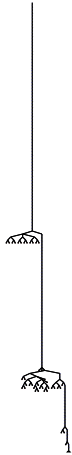


◀ Back to Start   ▶ Skip Animation

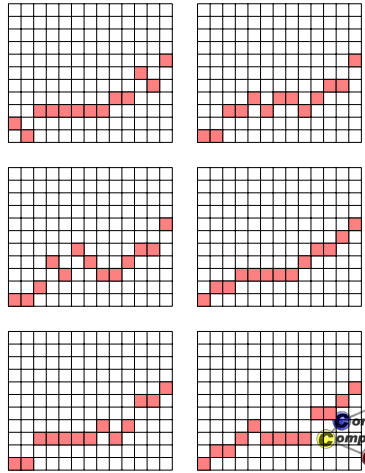
Navigation icons: back, forward, search, etc.

● Cork  
● Constraint  
● Computation  
● Centre

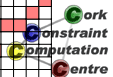
# Randomized Search



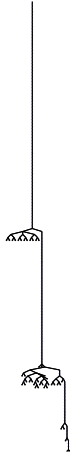
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10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	13
6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	6
5	1	4	6	8	10
12	5	1	9	8	4
2	12	1	3	7	9
5	2	9	11	6	3
9	10	6	4	5	3
4	9	6	7	2	5
10	12	7	1	2	3
12	11	2	6	1	7
6	11	7	5	9	2
1	8	5	6	2	-
3	6	7	11	1	4
9	6	2	7	11	10
9	3	7	2	4	5
3	7	6	2	11	9
7	6	1	2	3	5
6	2	13	4	11	-
7	3	2	8	10	-
8	11	10	3	2	6
2	8	13	7	1	11



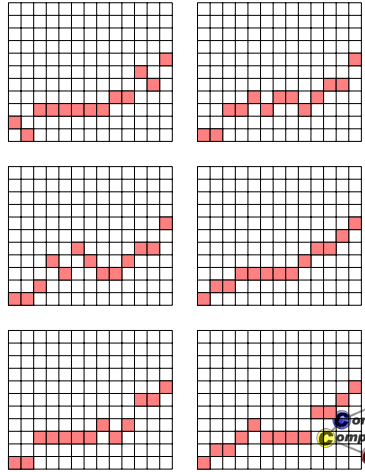
◀ Back to Start   ▶ Skip Animation



# Randomized Search



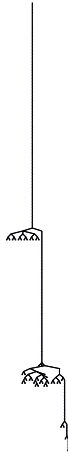
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4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	13
6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	6
5	1	4	6	8	10
12	5	1	9	8	4
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1	8	5	6	2	9
3	6	7	11	1	4
9	6	2	7	11	10
9	3	7	2	4	5
3	7	6	2	11	9
7	6	1	2	3	5
6	2	13	4	11	7
7	3	2	8	10	4
8	11	10	3	2	6
2	8	13	7	1	11



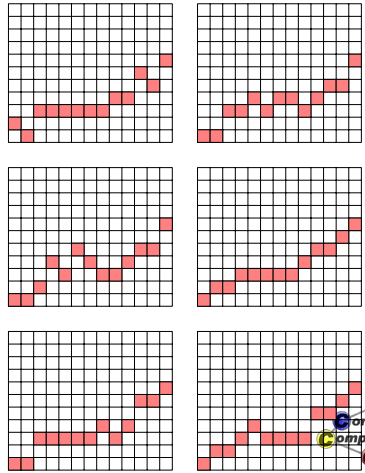
◀ Back to Start    ▶ Skip Animation



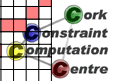
# Randomized Search



1	4	8	10	3	2
8	1	5	12	4	7
11	9	12	8	5	1
10	7	11	4	9	12
4	3	10	5	12	1
2	10	4	9	13	8
3	8	2	1	6	13
6	13	3	2	10	11
13	5	9	1	7	8
7	2	3	13	1	6
5	1	4	6	8	10
12	5	1	9	8	4
2	12	1	3	7	9
5	2	9	11	6	3
9	10	6	4	5	3
4	9	6	7	2	5
10	12	7	1	2	3
12	11	2	6	1	5
6	11	7	5	9	2
1	8	5	6	2	9
3	6	7	11	1	4
9	6	2	7	11	10
9	3	7	2	4	5
3	7	6	2	11	9
7	6	1	2	3	5
6	2	13	4	11	7
7	3	2	8	10	4
8	11	10	3	2	6
2	8	13	7	1	11

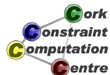


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# Observations

- Avoids deep backtracking in last time periods
- Perhaps by mixing values more evenly
- Impose fewer disequality constraints for last periods
- Easier to find solution
- Should allow to find solutions with more time periods



## Changing time periods

Problem	Size	Naive	FF	Layered	Credit	Random
10	5	0.812	1.453	1.515	0.828	1.922
10	6	14.813	2.047	2.093	1.219	2.469
10	7	79.109	3.688	50.250	3.234	3.672
10	8	-	-	141.609	55.156	6.328
10	9	-	-	-	-	10.281

# Observations

- Randomized method is strongest for this problem
- Not always fastest for smaller problem sizes
- Restart required for size 9 problems
- Same model, very different results due to search
- Very similar results for other problem instances

