

Contrôle continu 3 – corrigé

```
1 - ARRONDIR := proc(n::name)
local a :
a:=irem(eval(n),10):
if a<>0 then n:=eval(n)-a+10:
fi:
end:
```

```
2- INVERSER := proc(LL::name)
local LL1,S,k,i:
LL1:=[]:
for k from 1 to nops(eval(LL)[1])
do
    S:=NULL
    for i from 1 to nops(eval(LL))
    do
        S:=S,eval(LL)[i,k]:
    od
    LL1:=[op(LL1),[S]]:
od:
LL:=LL1:
end:
```

```
a- REUSSI := proc(RDV::list)
if RDV[4]>=3 OR RDV[5]=true then
RETURN(true):
else
RETURN(false):
fi:
end:
```

```
b- TauxRéussite:= proc(HIST::listlist)
local k,nbr:
nbr:=0:
for k from 1 to nops(HIST) do
    if REUSSI(HIST[k])=true then
        nbr:=nbr+1:
    fi:
end:
RETURN(nbr/nops(HIST)):
end:
```

```
c- NbreTypes := proc(HIST::listlist)
local k,types:
types:=[]:
for k from 1 to nops(HIST) do
    if member(HIST[k,3],[types])=false
    then
        types:=[op(types), HIST[k,3]] :
    fi:
end:
```

```
od:  
RETURN(nops(types):  
end:
```

```
d- OPTIMISME:=(HIST::name)  
local k:  
k:=1:  
while k<=nops(eval(HIST)) do  
  if eval(HIST)[k,4]<=0.25 AND eval(HIST)[k,5]=false then  
    HIST:=subsop(k=NULL,eval(HIST)):  
  else  
    k:=k+1:  
  fi:  
od:  
end:
```

```
e- REALISME:=(HIST::name,NbMensonges::name)  
local k,i:  
k:=1:  
NbMensonges:=0:  
while k<=nops(eval(HIST)) do  
  if eval(HIST)[k,5]=true then  
    if k=nops(eval(HIST)) then  
      (HIST)[k,5]=false:  
      NbMensonges:=eval(NbMensonges)+1:  
    else:  
      i:=k+1  
      while i<=nops(eval(HIST)) and eval(HIST)[k,1]<>eval(HIST)[i,1] do  
        i:=i+1:  
      od:  
      if i=nops(eval(HIST))+1 then  
        (HIST)[k,5]:=false:  
        NbMensonges:=eval(NbMensonges)+1:  
      fi:  
    fi:  
  fi:  
k:=k+1:  
od:
```