

Appendix for Warm-Starting Nested Rollout Policy Adaptation with Optimal Stopping

New snake-in-the-box lower bound

Dimension 10 (length: 373)

0, 1, 2, 0, 3, 1, 4, 0, 2, 1, 0, 5, 4, 1, 0, 2, 1, 4, 3, 2, 1,
0, 2, 6, 4, 3, 1, 4, 5, 0, 4, 1, 3, 4, 2, 1, 0, 4, 3, 1, 4, 5,
0, 1, 4, 3, 2, 7, 3, 1, 2, 0, 1, 4, 3, 0, 1, 2, 6, 3, 2, 1, 4,
3, 0, 5, 3, 1, 0, 2, 3, 0, 5, 3, 1, 4, 5, 0, 3, 6, 0, 4, 3, 1,
4, 0, 2, 1, 4, 3, 1, 0, 4, 6, 8, 0, 6, 1, 0, 4, 3, 1, 4, 5, 0,
1, 4, 3, 1, 0, 6, 3, 0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2, 0,
3, 1, 4, 5, 3, 6, 5, 4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1, 4,
0, 2, 1, 4, 3, 1, 0, 4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 1, 6, 5,
0, 4, 5, 3, 1, 4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5, 4,
0, 9, 3, 0, 5, 4, 1, 0, 3, 5, 0, 4, 5, 2, 1, 5, 4, 3, 1, 4, 0,
5, 1, 4, 3, 8, 2, 3, 4, 1, 0, 5, 4, 0, 2, 1, 4, 0, 5, 4, 1, 3,
5, 4, 0, 2, 7, 6, 1, 0, 4, 3, 1, 4, 5, 0, 1, 4, 3, 1, 0, 6, 3,
0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2, 0, 3, 1, 4, 5, 3, 6, 5,
4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1, 4, 0, 2, 1, 4, 3, 1, 0,
4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 5, 8, 3, 0, 5, 1, 4, 3, 5, 0,
3, 2, 0, 1, 3, 5, 0, 3, 4, 1, 3, 7, 0, 5, 4, 0, 1, 3, 4, 0, 5,
4, 1, 0, 2, 3, 1, 4, 0, 5, 4, 3, 1, 4, 0, 3, 6, 0, 4, 5, 3, 1,
4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5, 4

0, 1, 2, 0, 3, 1, 4, 0, 2, 1, 0, 5, 4, 1, 0, 2, 1, 4, 3, 2,
1, 0, 2, 6, 4, 3, 1, 4, 5, 0, 4, 1, 3, 4, 2, 1, 0, 4, 3, 1, 4, 5,
5, 0, 1, 4, 3, 2, 7, 3, 1, 2, 0, 1, 4, 3, 0, 1, 2, 6, 3, 2, 1,
4, 3, 0, 5, 3, 1, 0, 2, 3, 0, 5, 3, 1, 4, 5, 0, 3, 6, 0, 4, 3,
1, 4, 0, 2, 1, 4, 3, 1, 0, 4, 6, 8, 0, 6, 1, 0, 4, 3, 1, 4, 5,
0, 1, 4, 3, 1, 0, 6, 3, 0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2,
0, 3, 1, 4, 5, 3, 6, 5, 4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1,
4, 0, 2, 1, 4, 3, 1, 0, 4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 1, 6,
5, 0, 4, 5, 3, 1, 4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5,
4, 0, 9, 3, 0, 5, 4, 1, 0, 3, 5, 0, 4, 5, 2, 1, 0, 4, 5, 0, 3,
1, 4, 0, 5, 7, 2, 1, 4, 3, 0, 5, 3, 1, 0, 2, 1, 4, 0, 5, 4, 1,
3, 5, 4, 0, 6, 3, 0, 4, 1, 3, 4, 5, 0, 4, 1, 3, 2, 0, 1, 4, 5,
0, 4, 3, 1, 0, 4, 5, 0, 7, 3, 1, 4, 3, 0, 5, 3, 1, 0, 2, 3, 0,
5, 3, 1, 4, 5, 0, 3, 8, 5, 3, 4, 1, 2, 0, 1, 4, 3, 1, 5, 4, 0,
1, 3, 4, 1, 2, 0, 4, 1, 3, 5, 7, 3, 4, 5, 0, 4, 1, 3, 0, 4, 5,
6, 3, 5, 4, 1, 3, 0, 2, 3, 4, 0, 5, 3, 0, 2, 3, 4, 1, 2, 0, 3,
6, 0, 1, 3, 4, 1, 0, 5, 4, 1, 3, 4, 0, 1, 6, 7, 2, 5, 4, 0, 3,
1, 4, 5, 3, 2, 4, 5, 0, 3, 4, 1, 0, 5, 4, 0, 2, 1

0, 1, 2, 0, 3, 1, 4, 0, 2, 1, 0, 5, 4, 1, 0, 2, 1, 4, 3, 2,
1, 0, 2, 6, 4, 3, 1, 4, 5, 0, 4, 1, 3, 4, 2, 1, 0, 4, 3, 1, 4,
5, 0, 1, 4, 3, 2, 7, 3, 1, 2, 0, 1, 4, 3, 0, 1, 2, 6, 3, 2, 1,
4, 3, 0, 5, 3, 1, 0, 2, 3, 0, 5, 3, 1, 4, 5, 0, 3, 6, 0, 4, 3,
1, 4, 0, 2, 1, 4, 3, 1, 0, 4, 6, 8, 0, 6, 1, 0, 4, 3, 1, 4, 5,
0, 1, 4, 3, 1, 0, 6, 3, 0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2,
0, 3, 1, 4, 5, 3, 6, 5, 4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1,
4, 0, 2, 1, 4, 3, 1, 0, 4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 1, 6,
5, 0, 4, 5, 3, 1, 4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5,
4, 0, 9, 3, 0, 5, 4, 1, 0, 3, 5, 0, 4, 5, 2, 1, 5, 4, 3, 1, 4,
0, 5, 1, 4, 3, 8, 2, 3, 4, 1, 0, 5, 4, 0, 2, 1, 4, 0, 5, 4, 1,
3, 5, 4, 0, 5, 6, 1, 3, 4, 1, 2, 0, 1, 4, 3, 1, 5, 4, 0, 1, 3,
4, 1, 2, 0, 4, 1, 3, 5, 7, 3, 4, 5, 0, 4, 1, 3, 0, 4, 5, 6, 3,
5, 4, 1, 3, 0, 2, 3, 4, 1, 3, 6, 1, 0, 4, 3, 1, 4, 5, 0, 1, 4,
3, 1, 0, 6, 3, 1, 4, 3, 0, 2, 3, 4, 1, 3, 8, 0, 3, 1, 4, 5, 0,
4, 1, 2, 0, 1, 3, 5, 0, 3, 4, 1, 3, 6, 0, 5, 4, 0, 1, 3, 4, 0,
5, 4, 1, 0, 2, 1, 4, 3, 0, 5, 4, 3, 1, 4, 0, 3, 7, 0, 4, 5, 3,
1, 4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 3, 4, 0, 5, 4

Dimension 11 (length: 721)

0, 1, 2, 0, 3, 1, 4, 0, 2, 1, 0, 5, 4, 1, 0, 2, 1, 4, 3, 2, 1,
0, 2, 6, 4, 3, 1, 4, 5, 0, 4, 1, 3, 4, 2, 1, 0, 4, 3, 1, 4, 5,
0, 1, 4, 3, 2, 7, 3, 1, 2, 0, 1, 4, 3, 0, 1, 2, 6, 3, 2, 1, 4,
3, 0, 5, 3, 1, 0, 2, 3, 0, 5, 3, 1, 4, 5, 0, 3, 6, 0, 4, 3, 1,
4, 0, 2, 1, 4, 3, 1, 0, 4, 6, 8, 0, 6, 1, 0, 4, 3, 1, 4, 5, 0,
1, 4, 3, 1, 0, 6, 3, 0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2, 0,
3, 1, 4, 5, 3, 6, 5, 4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1, 4,
0, 2, 1, 4, 3, 1, 0, 4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 1, 6, 5,
0, 4, 5, 3, 1, 4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5, 4,
0, 9, 3, 0, 5, 4, 1, 0, 3, 5, 0, 4, 5, 2, 1, 5, 4, 3, 1, 4, 0,
5, 1, 4, 3, 8, 2, 3, 4, 1, 0, 5, 4, 0, 2, 1, 4, 0, 5, 4, 1, 3,
5, 4, 0, 2, 7, 6, 1, 0, 4, 3, 1, 4, 5, 0, 1, 4, 3, 1, 0, 6, 3,
0, 2, 1, 4, 3, 2, 0, 3, 5, 0, 4, 3, 2, 0, 3, 1, 4, 5, 3, 6, 5,
4, 0, 3, 1, 4, 0, 5, 4, 3, 7, 5, 3, 1, 4, 0, 2, 1, 4, 3, 1, 0,
4, 5, 1, 3, 4, 1, 0, 2, 1, 4, 3, 5, 8, 3, 0, 5, 4, 1, 3, 5, 0,
3, 2, 0, 1, 3, 5, 0, 3, 4, 1, 3, 7, 0, 5, 4, 0, 1, 3, 4, 0, 5,
4, 1, 0, 2, 3, 1, 4, 0, 5, 4, 3, 1, 4, 0, 3, 6, 0, 4, 5, 3, 1,
4, 5, 0, 4, 1, 2, 0, 4, 5, 0, 1, 4, 3, 0, 5, 4, 10, 3, 5, 4,
1, 0, 3, 5, 4, 3, 2, 0, 4, 1, 3, 0, 5, 4, 0, 9, 3, 4, 1, 3, 5,
4, 0, 1, 3, 4, 1, 2, 0, 1, 3, 5, 0, 3, 4, 1, 0, 3, 6, 5, 4, 0,
1, 2, 0, 3, 1, 4, 0, 2, 1, 0, 5, 4, 1, 0, 2, 1, 9, 0, 4, 5, 0,
3, 8, 0, 4, 3, 1, 4, 5, 0, 4, 2, 0, 1, 4, 5, 0, 4, 3, 1, 0, 4,

5, 6, 3, 0, 1, 4, 3, 0, 5, 3, 1, 0, 2, 1, 4, 0, 5, 4, 1, 3, 0,
9, 3, 1, 4, 3, 2, 0, 3, 4, 1, 3, 6, 0, 1, 3, 4, 1, 0, 5, 4, 1,
3, 4, 0, 1, 6, 3, 1, 4, 3, 2, 0, 3, 1, 4, 5, 3, 6, 5, 4, 0, 3,
1, 4, 0, 5, 4, 3, 7, 5, 3, 1, 4, 0, 2, 1, 4, 3, 1, 0, 4, 5, 1,
3, 4, 1, 0, 2, 1, 4, 3, 1, 6, 5, 0, 4, 5, 3, 1, 4, 5, 0, 4, 1,
2, 0, 4, 5, 0, 1, 4, 3, 0, 5, 4, 0, 9, 3, 0, 5, 4, 1, 0, 3, 5,
2, 1, 0, 3, 1, 4, 0, 5, 1, 3, 0, 1, 6, 4, 3, 1, 4, 5, 0, 4, 1,
2, 0, 1, 3, 5, 0, 3, 4, 1, 3, 5, 2, 8, 6, 0, 4, 5, 3, 1, 4, 5,
0, 4, 1, 2, 0, 1, 3, 5, 0, 4, 9, 2, 3, 4, 1, 3, 2, 0, 3, 1, 4,
5, 0, 4, 3, 2, 0, 3, 1, 4, 5, 3, 6, 4, 3, 1, 4, 5, 0, 4, 1, 2,
0, 1, 3, 5, 0, 3, 4, 1, 2, 9, 4, 3, 1, 4, 0, 5, 4, 3, 1, 4, 2,
5, 7, 0, 1, 3, 9, 2, 1, 9, 0, 5, 4, 0, 3, 2, 0, 1, 3, 5, 1, 7,
5, 0, 1, 4, 9, 1, 6, 0

Dimension 12 (length: 1383)

0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3,
1, 0, 3, 2, 6, 1, 5, 4, 3, 2, 5, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5,
2, 3, 4, 1, 7, 6, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1, 4,
3, 2, 5, 4, 3, 1, 0, 6, 1, 2, 5, 4, 3, 2, 5, 1, 2, 4, 5, 2, 0,
1, 2, 5, 4, 3, 2, 5, 8, 0, 4, 3, 2, 5, 4, 3, 1, 2, 6, 0, 1, 2,
3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3,
2, 6, 0, 7, 1, 2, 3, 1, 0, 2, 6, 0, 1, 4, 3, 2, 5, 4, 3, 1, 0,
3, 4, 5, 3, 1, 4, 3, 2, 5, 4, 3, 1, 0, 6, 1, 4, 0, 2, 3, 4, 5,
2, 1, 5, 4, 9, 5, 6, 2, 3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 3, 5, 2,
3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 0, 6, 2, 1, 3, 4, 5, 2, 3, 4, 0,
8, 5, 2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1, 5, 2, 3, 4, 5, 2, 1,
6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3,
4, 1, 0, 7, 8, 0, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1, 4,
3, 2, 5, 4, 3, 1, 0, 6, 1, 2, 5, 4, 3, 2, 5, 1, 2, 4, 5, 2, 0,
1, 2, 5, 4, 3, 2, 1, 8, 2, 3, 4, 2, 1, 3, 2, 5, 4, 3, 2, 1, 0,
2, 3, 6, 1, 4, 5, 1, 3, 5, 2, 0, 1, 2, 5, 4, 3, 2, 0, 6, 2, 3,
4, 5, 2, 3, 1, 0, 10, 3, 1, 2, 5, 4, 3, 2, 5, 8, 0, 4, 3, 2,
5, 4, 3, 1, 2, 6, 0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1,
2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 6, 5, 8, 0, 1, 5, 2, 3, 4, 5, 2,
1, 6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2,
3, 4, 1, 6, 7, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1, 5, 2,
3, 4, 5, 1, 6, 2, 3, 0, 1, 4, 5, 1, 3, 5, 2, 3, 0, 1, 3, 2, 5,
4, 3, 2, 1, 0, 3, 8, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4,
3, 0, 1, 3, 4, 5, 2, 3, 4, 1, 0, 6, 4, 1, 3, 2, 5, 4, 3, 2, 0,
4, 2, 5, 4, 3, 2, 1, 4, 2, 5, 4, 9, 1, 4, 5, 2, 3, 4, 1, 5, 6,
0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3,
1, 0, 3, 2, 6, 1, 2, 3, 4, 5, 1, 2, 8, 6, 1, 3, 4, 5, 2, 3, 4,
1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1, 0, 6, 1, 5, 2, 3, 4,
5, 2, 1, 0, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3, 1, 7, 6, 1, 3, 2, 5,
4, 3, 2, 1, 3, 5, 2, 0, 1, 2, 5, 4, 3, 2, 1, 0, 6, 1, 2, 3, 4,
5, 2, 3, 0, 2, 4, 3, 2, 5, 4, 1, 8, 5, 1, 2, 5, 4, 3, 2, 1, 5,
6, 0, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1, 4, 3, 2, 5, 4,
3, 1, 0, 3, 4, 6, 1, 4, 3, 2, 5, 4, 3, 1, 0, 11, 6, 3, 0, 1,
3, 2, 5, 4, 3, 2, 1, 3, 5, 2, 3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 0,
6, 2, 1, 3, 4, 5, 2, 3, 4, 0, 8, 5, 2, 3, 4, 5, 2, 1, 3, 5, 6,
1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1,
6, 7, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1, 5, 2, 3, 4, 5,
1, 6, 2, 3, 0, 1, 4, 5, 1, 3, 5, 2, 3, 0, 1, 3, 2, 5, 4, 3, 2,
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3, 4, 5, 2, 3, 4, 1, 0, 6, 2, 0, 1, 4, 5, 2, 4, 0, 2, 3, 4, 5,
2, 1, 5, 4, 9, 5, 6, 2, 3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 3, 5, 2,

3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 0, 6, 2, 1, 3, 4, 5, 2, 3, 4, 0,
8, 5, 2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1, 5, 2, 3, 4, 5, 2, 1,
6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3,
4, 1, 0, 7, 1, 5, 2, 3, 4, 5, 2, 1, 0, 3, 6, 1, 3, 2, 5, 4, 3,
2, 8, 6, 5, 4, 3, 2, 5, 4, 1, 10, 4, 3, 1, 2, 3, 4, 5, 1, 4,
3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 0, 6, 2, 1, 3, 4, 5, 2, 3, 4, 0,
8, 5, 2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1, 5, 2, 3, 4, 5, 2, 1,
0, 6, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3,
4, 1, 6, 7, 1, 4, 3, 2, 5, 4, 3, 1, 0, 2, 6, 1, 2, 3, 4, 5, 2,
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5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1, 0, 6, 4,
1, 3, 2, 5, 4, 3, 2, 0, 4, 2, 5, 4, 3, 2, 1, 4, 2, 5, 4, 9, 1,
4, 5, 2, 3, 4, 1, 5, 6, 0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5,
3, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 6, 1, 2, 3, 4, 5, 2, 1, 8,
6, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4,
1, 0, 6, 7, 8, 6, 0, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 5, 3, 1,
4, 3, 2, 5, 4, 3, 1, 0, 3, 4, 6, 1, 3, 0, 2, 3, 4, 5, 2, 1, 0,
3, 8, 1, 3, 2, 5, 4, 3, 1, 2, 6, 0, 1, 2, 3, 4, 5, 2, 1, 0, 2,
5, 3, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 6, 4, 3, 1, 5, 2, 3, 4, 1,
10, 0, 4, 1, 3, 2, 1, 5, 8, 0, 1, 5, 2, 3, 4, 9, 6, 1, 8, 0,
1, 4, 3, 2, 5, 4, 3, 1, 9, 6, 7, 10, 1, 2, 5, 3, 0, 2, 3, 4,
5, 2, 1, 0, 5, 2, 3, 5, 9, 0, 1, 5, 2, 3, 4, 5, 1, 2, 10, 3,
7, 4, 1, 5, 2, 3, 1, 2, 4, 8, 3, 6, 4, 5, 1, 4, 3, 6, 8, 2, 1,
0, 8, 3, 2, 1, 4, 5, 1, 3, 2, 10, 0, 1, 3, 2, 5, 1, 4, 3, 0,
9, 1, 3, 4, 5, 1, 0, 11, 8, 10, 9, 8, 5, 3, 11, 2, 3, 5, 7,
2, 10, 11, 2, 1, 3

Dimension 13 (length: 2709)

0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3,
1, 0, 3, 2, 6, 1, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3,
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5, 4, 3, 1, 0, 6, 1, 2, 5, 4, 3, 2, 5, 1, 2, 4, 5, 2, 0, 1, 2,
5, 4, 3, 2, 5, 8, 0, 4, 3, 2, 5, 4, 3, 1, 2, 6, 0, 1, 2, 3, 4,
5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 6,
0, 7, 1, 2, 3, 1, 0, 2, 6, 0, 1, 4, 3, 2, 5, 4, 3, 1, 0, 3, 4,
5, 3, 1, 4, 3, 2, 5, 4, 3, 1, 0, 6, 1, 4, 0, 2, 3, 4, 5, 2, 1,
5, 4, 9, 5, 6, 2, 3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 3, 5, 2, 3, 0,
1, 3, 2, 5, 4, 3, 2, 1, 0, 6, 2, 1, 3, 4, 5, 2, 3, 4, 0, 8, 5,
2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1, 5, 2, 3, 4, 5, 2, 1, 6, 0,
1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1,
0, 7, 1, 5, 2, 3, 4, 5, 2, 1, 0, 2, 5, 3, 1, 2, 3, 4, 5, 2, 3,
1, 6, 3, 2, 0, 1, 5, 4, 3, 2, 5, 1, 2, 0, 1, 3, 2, 5, 4, 3, 2,
1, 0, 8, 1, 2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1, 5, 2, 3, 4, 5,
2, 1, 6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1, 3, 4, 5,
2, 3, 4, 1, 3, 10, 4, 3, 0, 1, 3, 2, 5, 4, 3, 2, 1, 0, 6, 2, 1,
3, 4, 5, 2, 3, 4, 0, 8, 5, 2, 3, 4, 5, 2, 1, 0, 2, 5, 4, 2, 1,
5, 2, 3, 4, 5, 2, 1, 6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3,
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4, 5, 3, 1, 4, 3, 2, 1, 6, 2, 3, 0, 1, 4, 5, 1, 3, 5, 2, 3, 0,
1, 3, 2, 5, 4, 3, 2, 1, 0, 3, 8, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4,
1, 3, 5, 4, 3, 0, 1, 3, 4, 5, 2, 3, 4, 1, 0, 6, 4, 1, 3, 2, 5,
4, 3, 2, 0, 4, 2, 5, 4, 3, 2, 1, 4, 2, 5, 4, 9, 1, 4, 5, 2, 3,
4, 1, 5, 6, 0, 1, 2, 3, 4, 5, 2, 3, 1, 0, 3, 2, 5, 3, 1, 2, 3,
4, 5, 2, 3, 1, 0, 3, 2, 6, 1, 5, 4, 3, 2, 5, 1, 0, 8, 1, 4, 3,
2, 5, 4, 3, 1, 6, 0, 1, 3, 4, 5, 2, 3, 4, 1, 3, 5, 4, 3, 0, 1,
3, 4, 5, 2, 3, 4, 1, 0, 6, 1, 5, 2, 3, 4, 5, 2, 1, 5, 4, 7, 1,

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