

# 1 Increasing numbers

The graphs are generated by a sequence of numbers  $\alpha_i \in \mathbb{Z}$  appearing in random (not sorted) order from left to right.

$$\{\alpha_1, \dots, \alpha_n\}$$

We set  $s = \alpha_1$  and  $t = \alpha_n$ . Odd numbers are red. Two numbers  $\alpha_i, \alpha_j$  are connected if:

- $i < j$
- $\alpha_i < \alpha_j$

The edges are directed from the smaller to the larger number. Some examples:

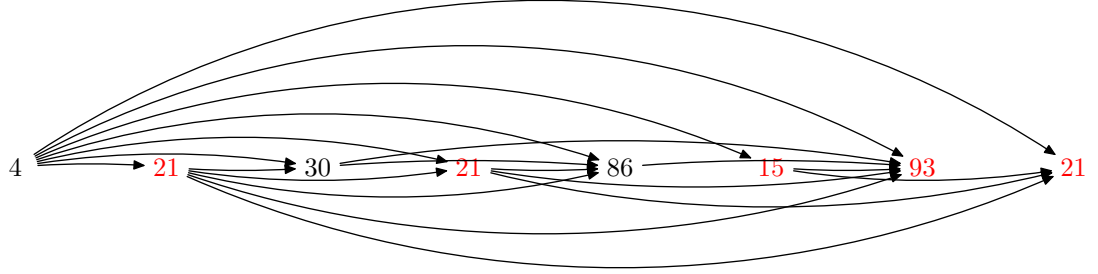


Figure 1: n=8

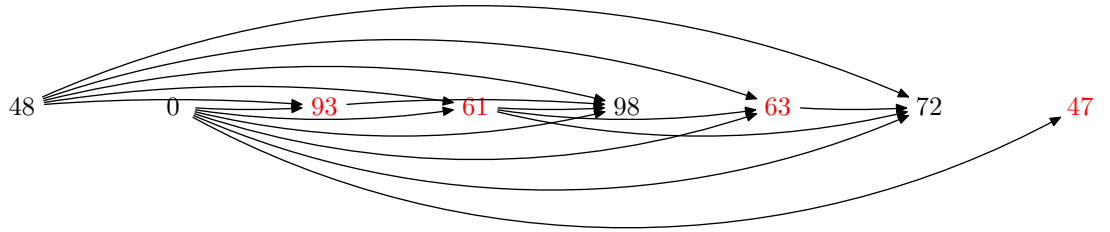


Figure 2: n=8

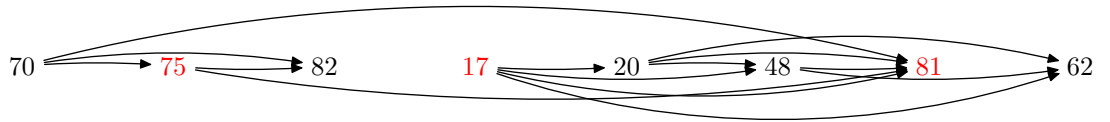


Figure 3: n=8