

Input: Constraints

$$H_{out} = \frac{H_{in} + 2P - D(K-1) - 1}{S} + 1$$

$$H_{in} > K, \quad P < H_{in}$$

$$H_{in}, K, P, D, S > 0$$

Memory Limits

Output: Model

Z3 SMT
Solver

$$\begin{aligned} H_{out} &= 126, H_{in} = 128 \\ P &= 1, D = 1 \\ K &= 5, S = 1 \end{aligned}$$