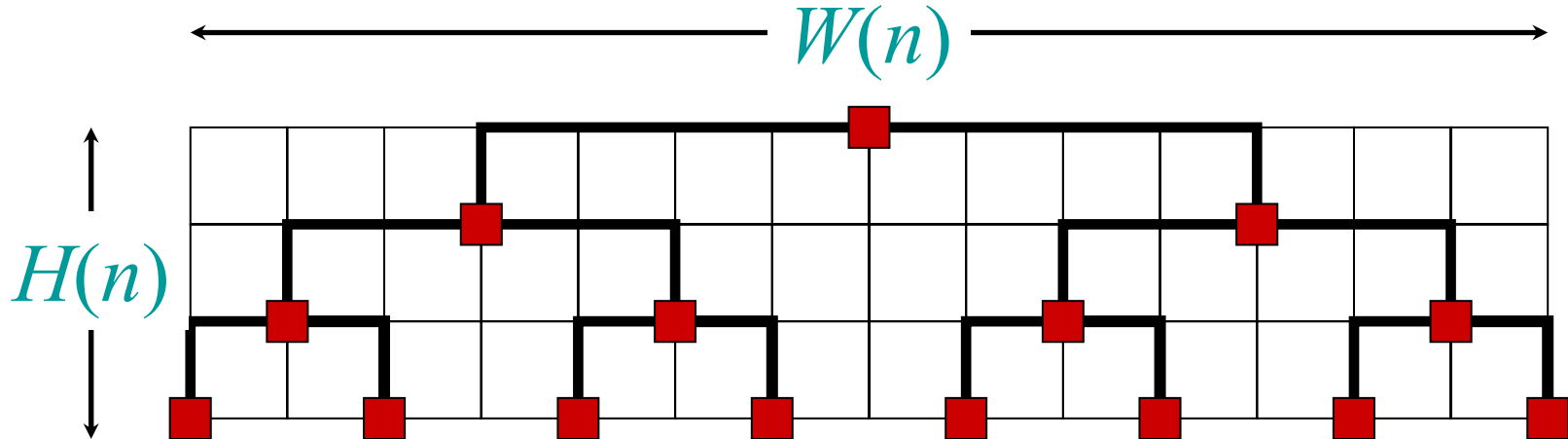




VLSI layout

Problem: Embed a complete binary tree with n leaves in a grid using minimal area.



$$\begin{aligned} H(n) &= H(n/2) + \Theta(1) \\ &= \Theta(\lg n) \end{aligned}$$

$$\begin{aligned} W(n) &= 2W(n/2) + \Theta(1) \\ &= \Theta(n) \end{aligned}$$