Binny Trees

height = 3

heisht is O(4), max heisht is not

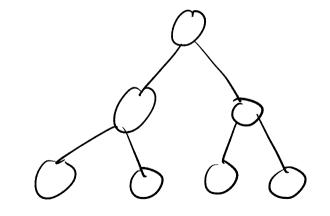
$$\begin{array}{c} h & unh \\ 4 & 2 \\ 5 & 2 \\ 6 & 2 \\ 7 & 2 \\ 8 & 3 \end{array}$$

Min height is $O(lg n)$

 $\lfloor \log_2(n) \rfloor$

Searching in a BST is O(h)

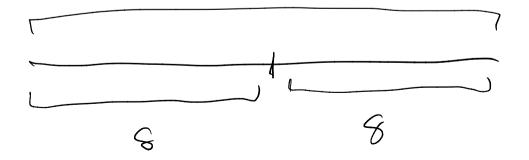
Recursively traversing a binary tree is depth-first Search



- Subpablems may overlap

remogive cally need to access the same data





must exhibit optimal Substructure

We need both optimal Substructure and greedy-choice property to hold to use a greedy solution

