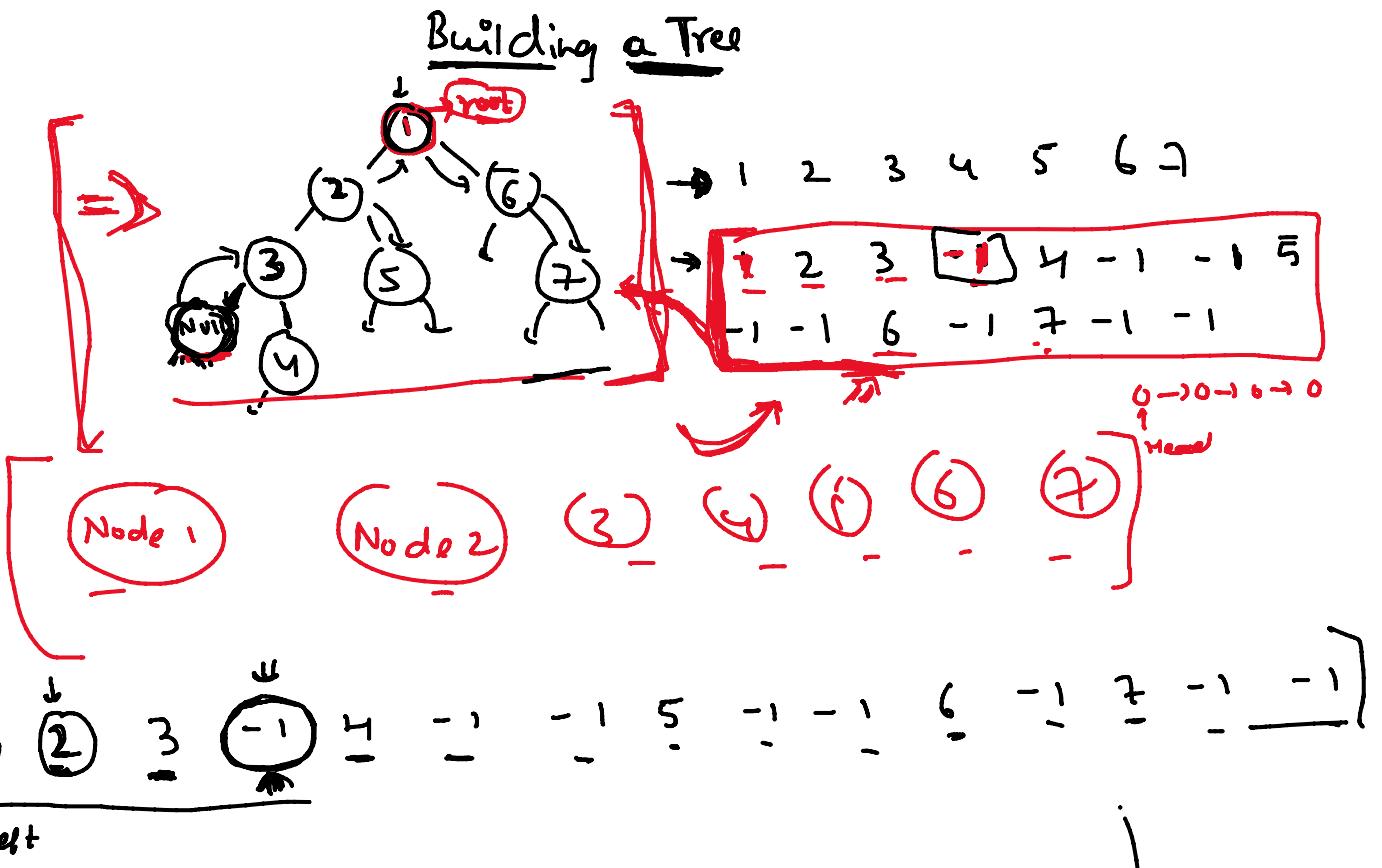


Trees

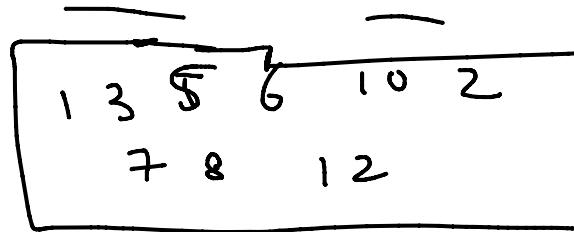
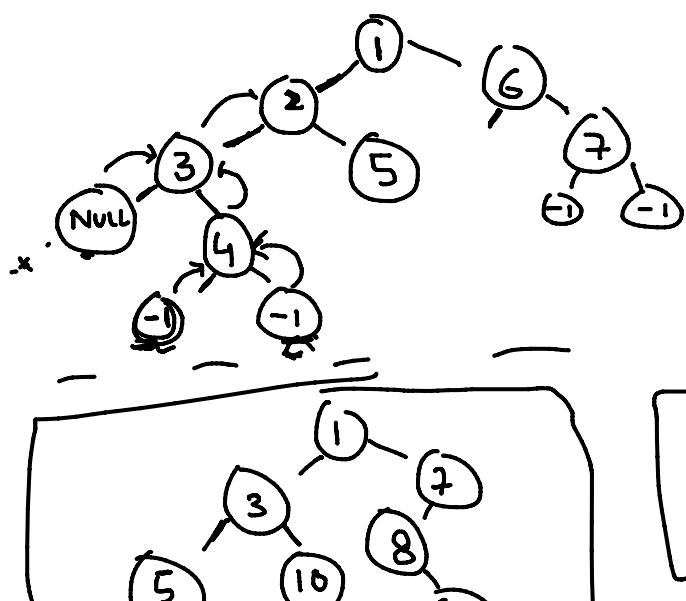
$\xrightarrow{0 \rightarrow 0 \rightarrow 0 \rightarrow 0 \rightarrow 0}$

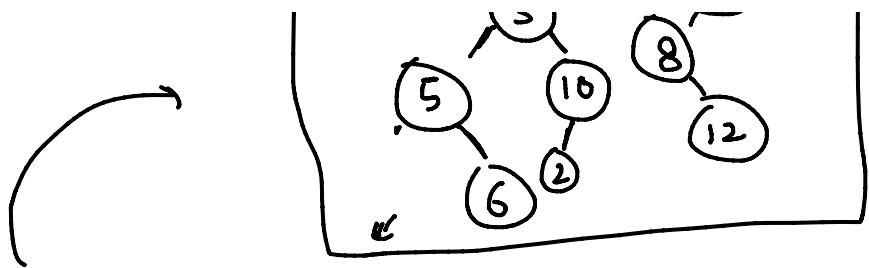
Binary Tree

- ↳ Preorder \rightarrow root, left, right
- ↳ Postorder \rightarrow left, right, root
- ↳ Inorder \rightarrow left, root, right



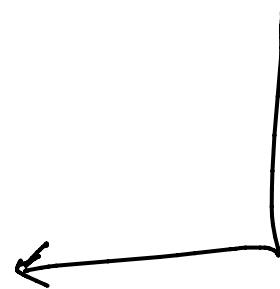
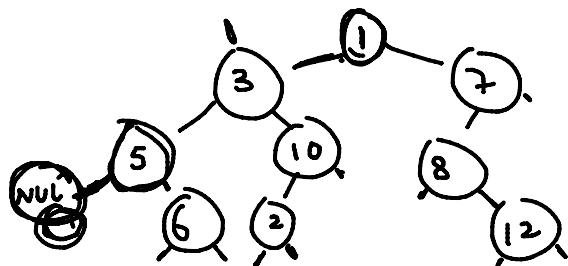
root + left





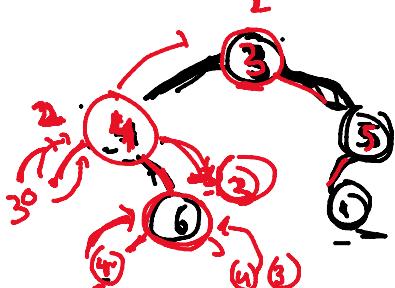
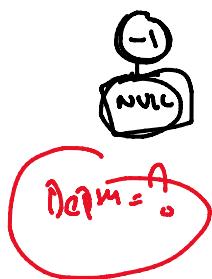
+ 8 12

$\left[\begin{array}{cccccccccccc} 1 & 3 & 5 & -1 & 6 & -1 & -1 & 10 & 2 & -1 & -1 & -1 & 7 & 8 & -1 \\ 12 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 \end{array} \right]$



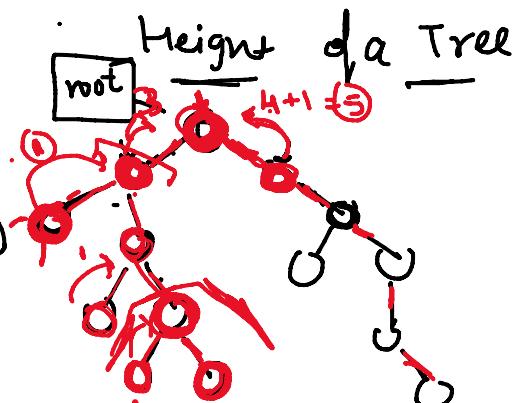
$\left[\begin{array}{cccccccccccc} 1 & 3 & 4 & -1 & 6 & -1 & -1 & 10 & 2 & -1 & -1 & -1 & 7 \\ 9 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 \end{array} \right]$

Main \rightarrow Problem \rightarrow 1 ttwtn



II

4 6 3 1 5



Main problem +

height of Tree starting
from root Node

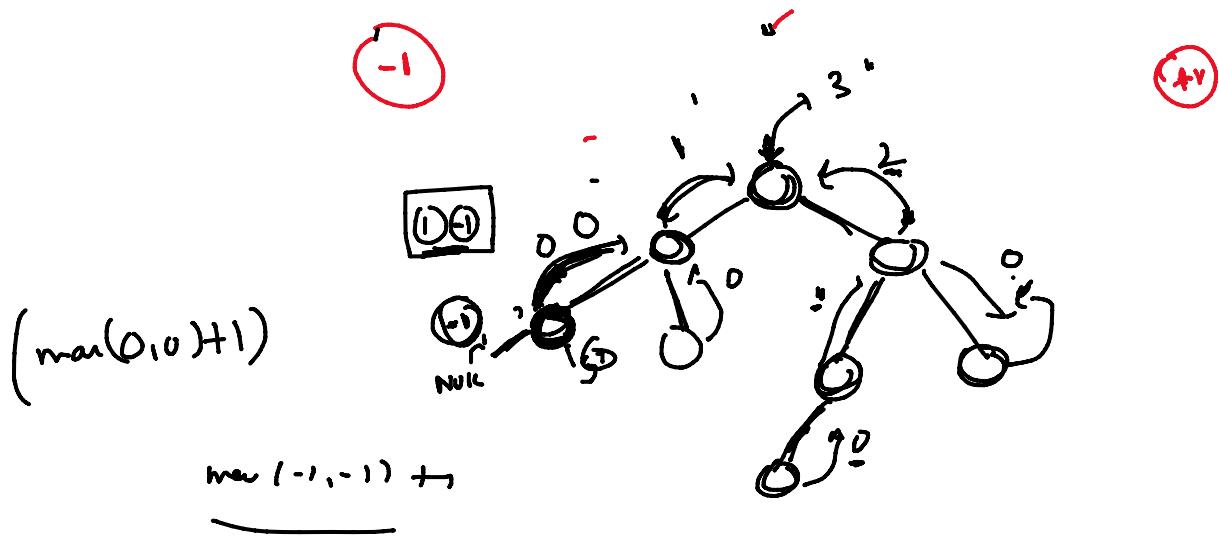
root

Height of a Tree

$H=5$

Implement \rightarrow (complex)

-11



Height = No of levels in Tree

