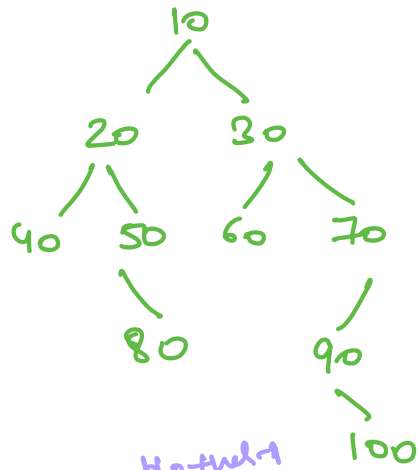
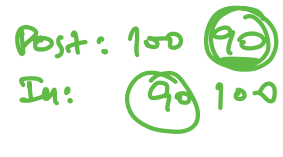
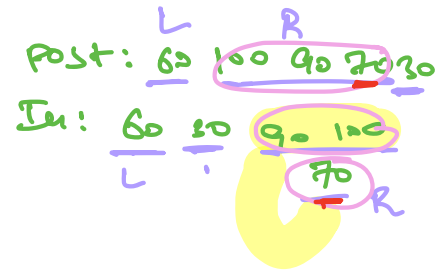
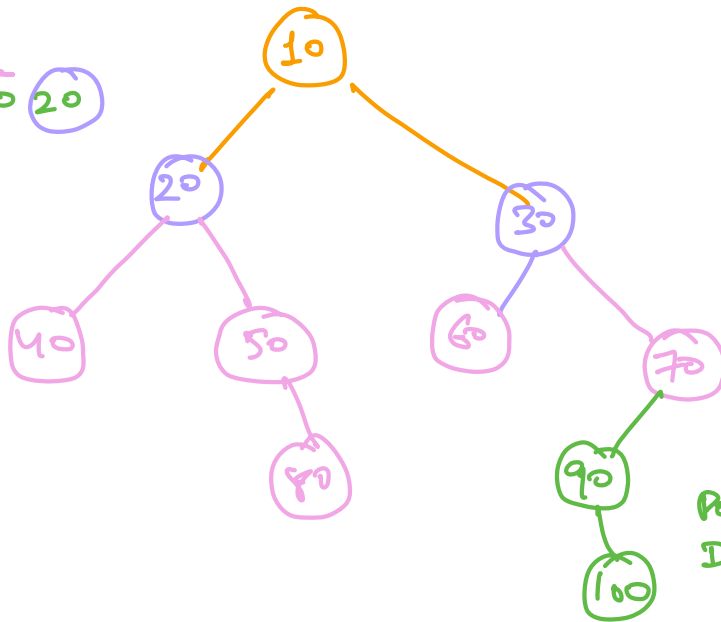
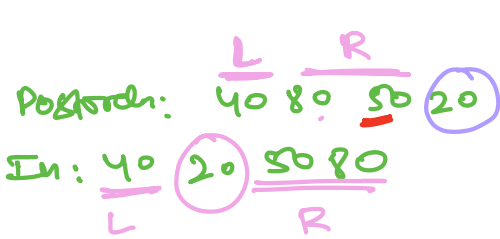
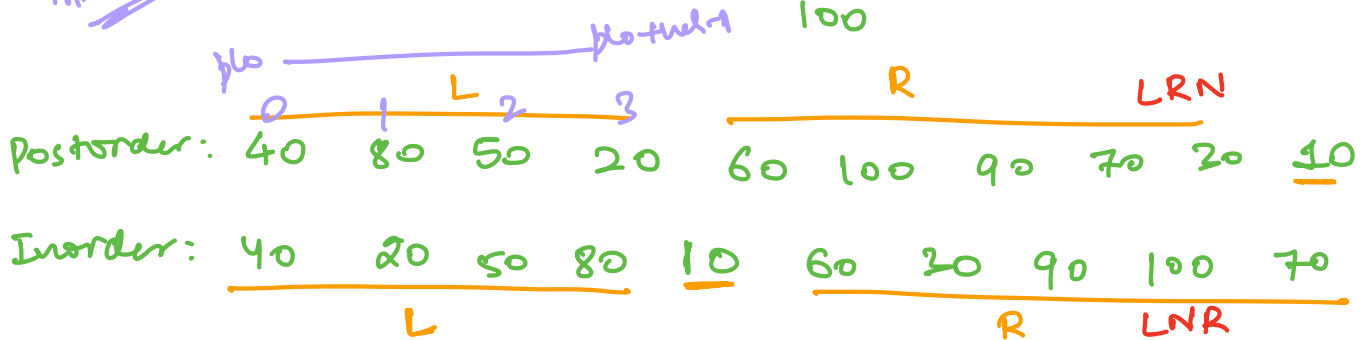


Postorder Inorder



$0 + 4 - 1 = 3$
 $mid = 4$

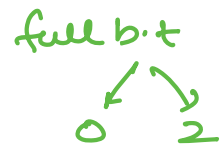
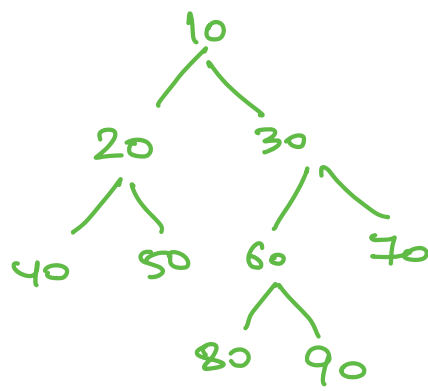


Uniquely:

- Pre + In
- Post + In
- Levelorder + In

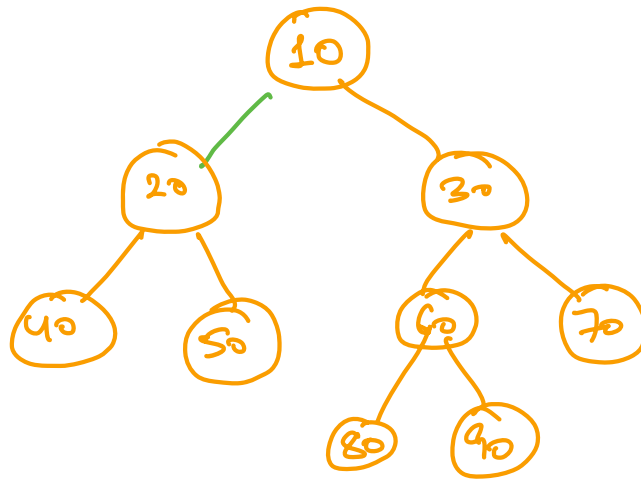
Pre + Post

Uniquely: every node has either 0 or 2 child } full b.t.



Pre: 10 20 40 50 30 60 80 90 70 NLR
 Post: 40 50 20 80 90 60 70 30 10 LRN

Pre: 20 40 50
 Post: 40 50 20

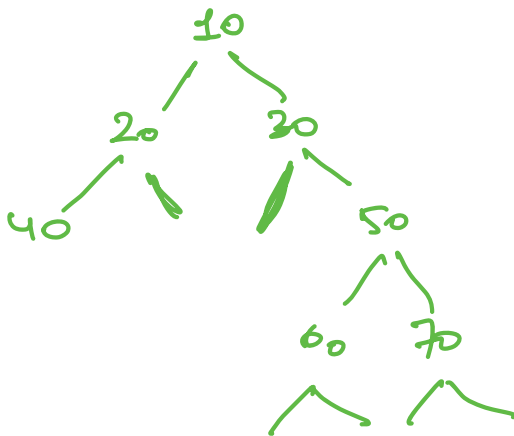


Pre: 30 60 80 90 70
 Post: 80 90 60 70 30

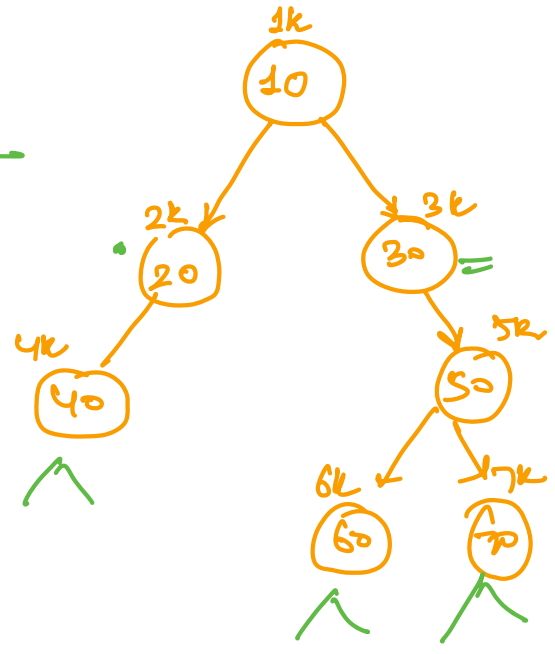
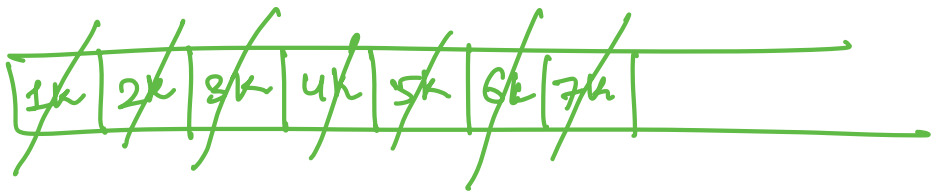
Pre: 60 80 90
 Post: 80 90 60

Level order

✓ 10 20 30 40 -1 -1 50⁻¹ 60 70
 -1 -1 -1 -1



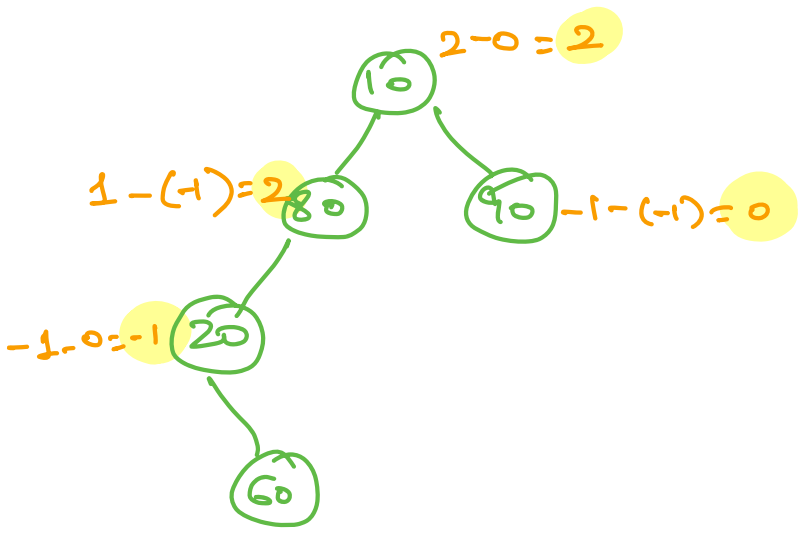
$\underline{10}$ $\underline{20}$ $\underline{30}$ $\underline{40}$ $\underline{-1}$ $\underline{-1}$ $\underline{50}$ $\underline{60}$ $\underline{70}$ $\underline{-1}$ $\underline{-1}$ $\underline{-1}$ $\underline{-1}$



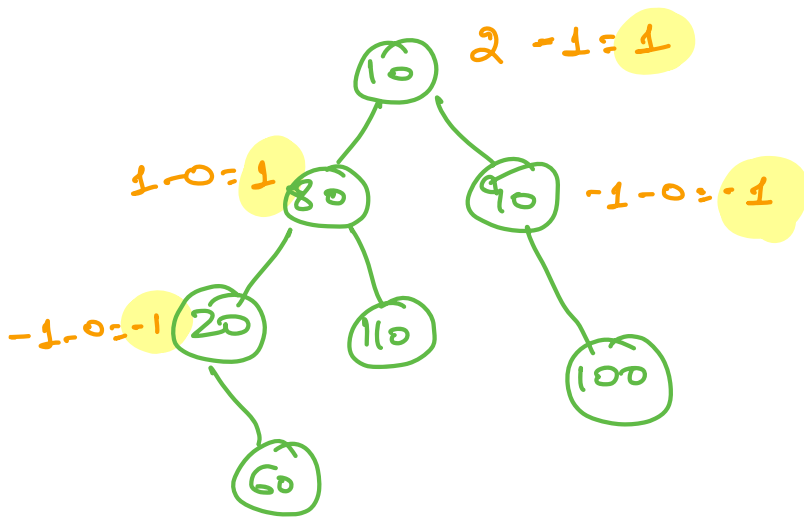
Reverse l, r
 input
 l set → push
 input
 r set → push

isBalanced

every node bf -1, 0, 1
 ↳ lt subtree ht - rt subtree ht



not balanced



balanced

ans = true