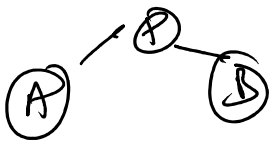
3.17 - Binary Trees 2

Saturday, August 16, 2025 10:42 AM

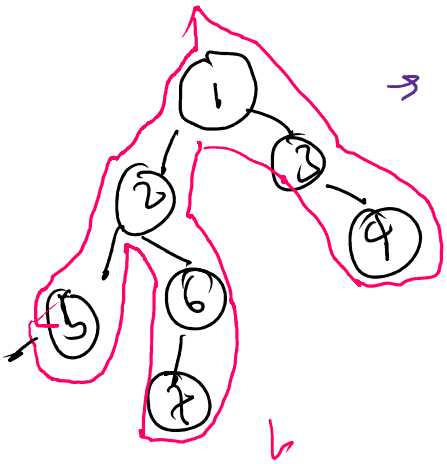
Tree Traversal

- → Pre Order
- → Post Order
- → Inorder
- → level order

⇒ Pre Order



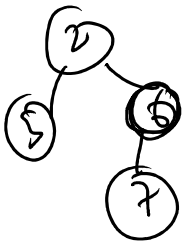
→ +AB

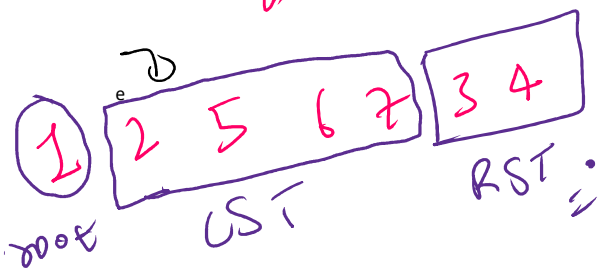


→ Euler's Path

- → Print root
- → Print preorder LST
- → Print preorder RST

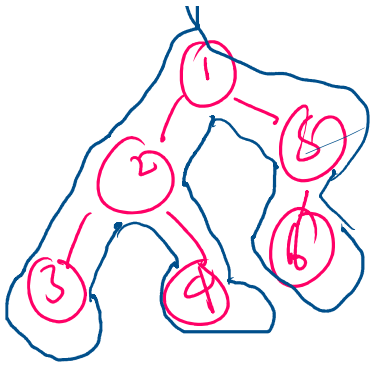
2 5 6 X





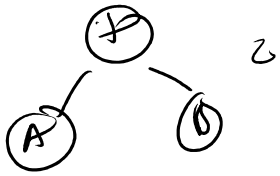
⇒ Inorder Traversal

Inorder (LST) root In (RST)

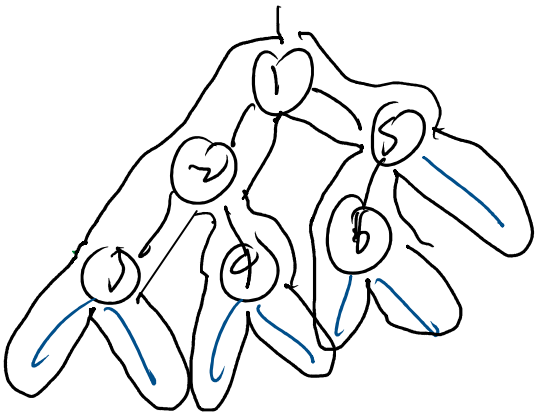


3 2 4 1 6 5

3) Post Order



PO(LST) PO(RST) root

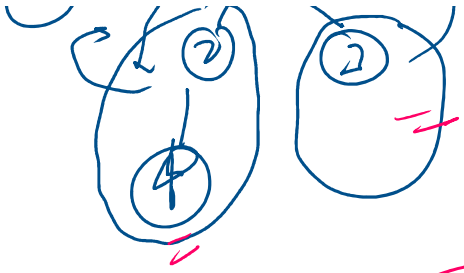


3 4 2 6 5 1

size

size(root) {

size (root)

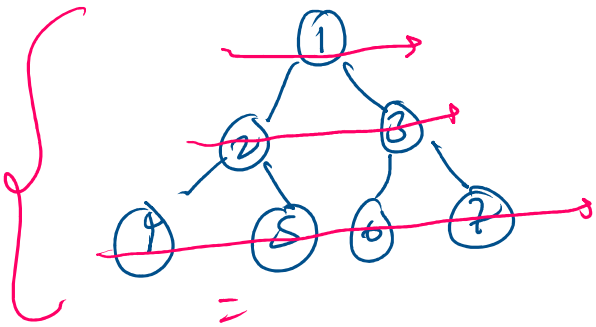


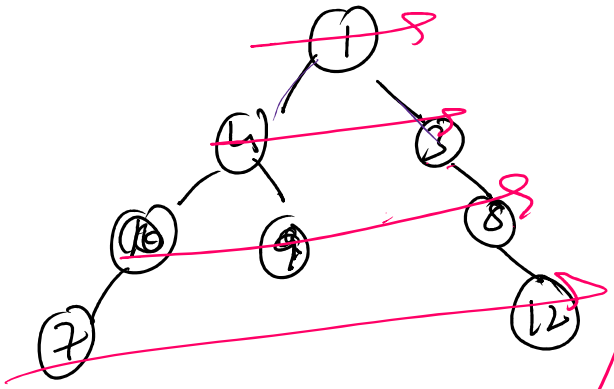
3

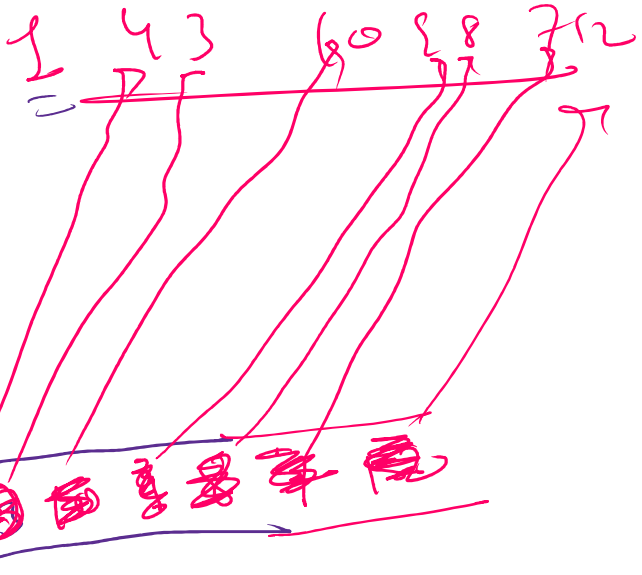
x+y+1

level order Traversal

1 2 3 4 5 6 7







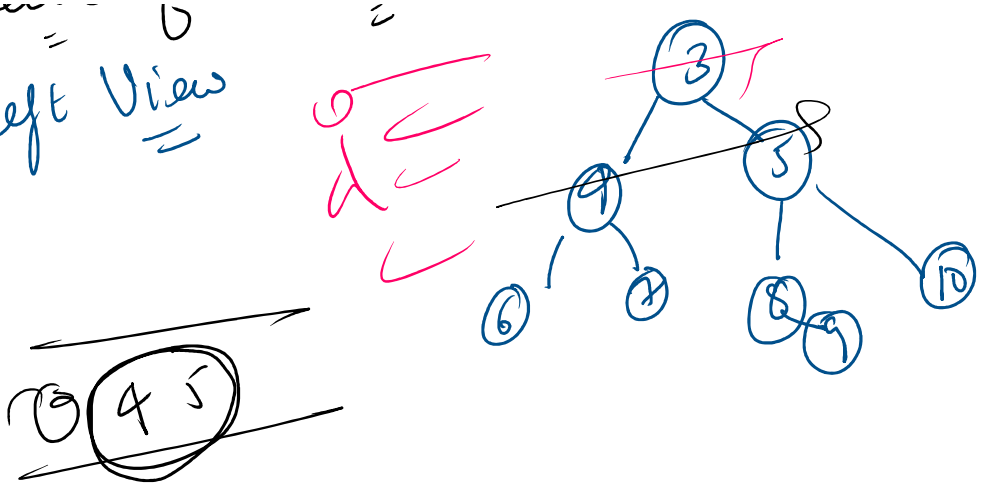
(A) level Order and BFS is same in tree.

3 4 6 9

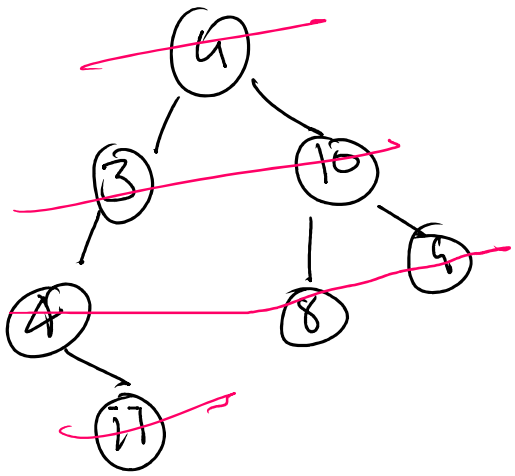
Views of a tree

Left View

Left View

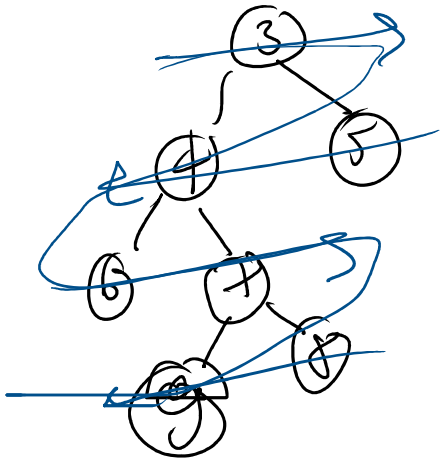


Right View



4 10 9 11

ZigZag



3 5 4 6 7 8