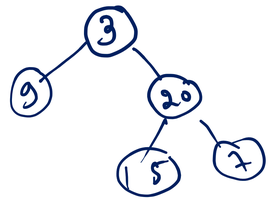
Lec-35

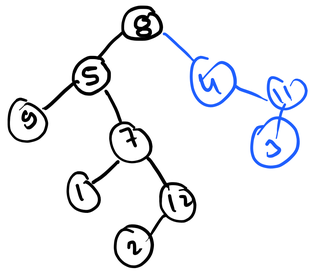
02/02/25 1:12 PM

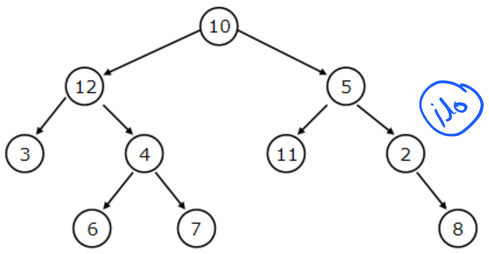
Root Left Right

Left Root Right

```
Input: preorder = [3,9,20,15,7], inorder = [9,3,15,20,7]
```





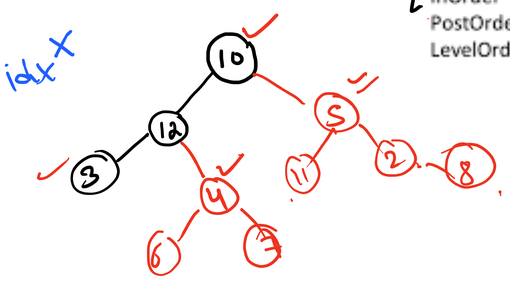


Levelorder tree traversal
10, 12, 5, 3, 4, 11, 2, 6, 7, 8

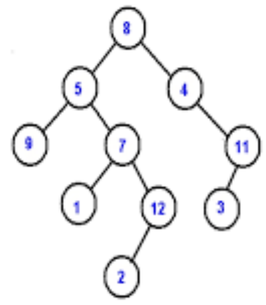
Inorder tree traversal
3, 12, 6, 4, 7, 10, 11, 5, 2, 8

Preorder tree traversal
10, 12, 3, 4, 6, 7, 5, 11, 2, 8

Postorder tree traversal
3, 6, 7, 4, 12, 11, 8, 2, 5, 10



PreOrder - 8, 5, 9, 7, 1, 12, 2, 4, 11, 3
InOrder - 9, 5, 1, 7, 2, 12, 8, 4, 3, 11
PostOrder - 9, 1, 2, 12, 7, 5, 3, 11, 4, 8
LevelOrder - 8, 5, 4, 9, 7, 11, 1, 12, 3, 2



Input:

```
int inOrder[] =   {20, 30, 35, 40, 45, 50, 55, 60, 70};
int postOrder[] = {20, 35, 30, 45, 40, 55, 70, 60, 50};
```

Output: Binary Tree