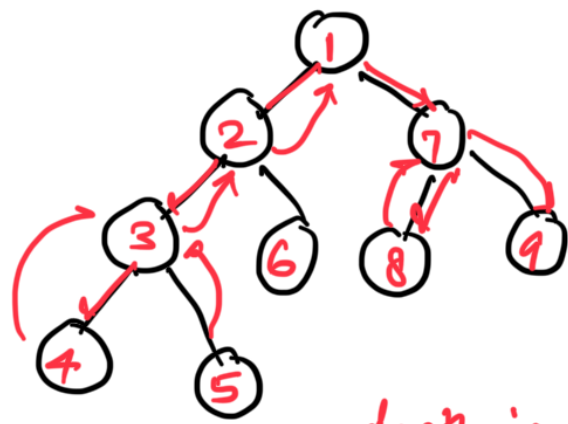


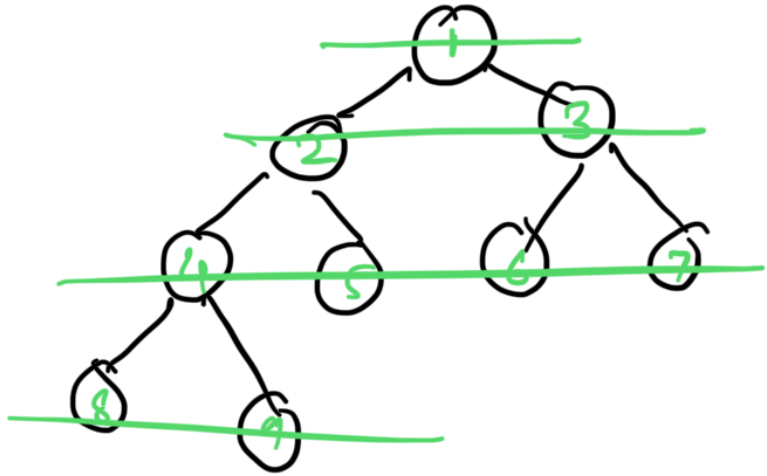
Tree Traversals -

① DFS \rightarrow depth



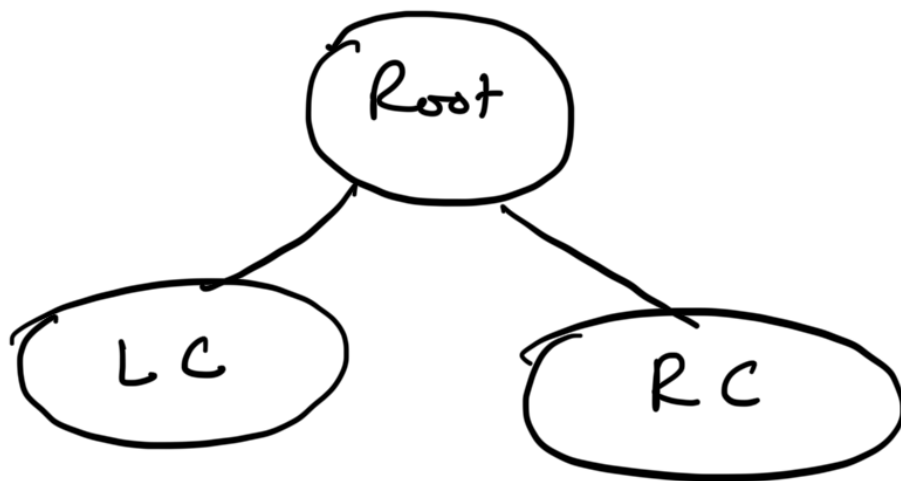
depth is consider
for DFS

② BFS - Breadth/levels

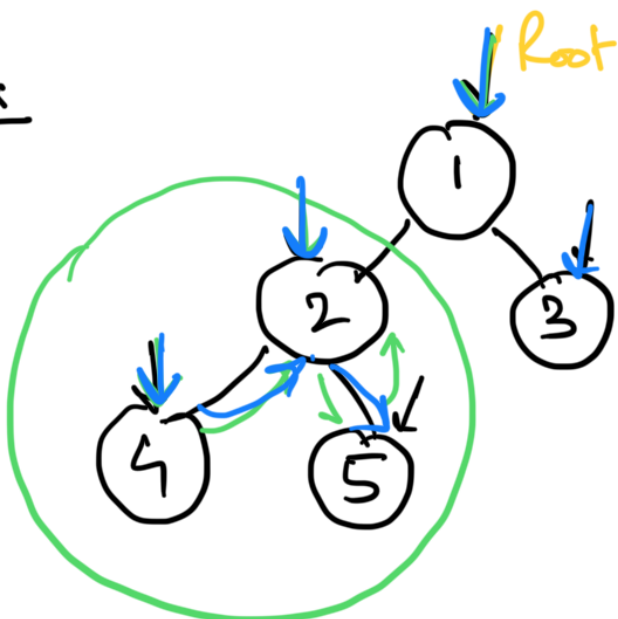


3 Tree Traversals

1. Pre Order \rightarrow Root, LC, RC
2. In Order \rightarrow LC, Root, RC
3. Post Order \rightarrow LC, RC, Root



Ex



Pre Order - Root, LC, RC

1, 2, 4, 5, 3

In Order - LC, Root, RC

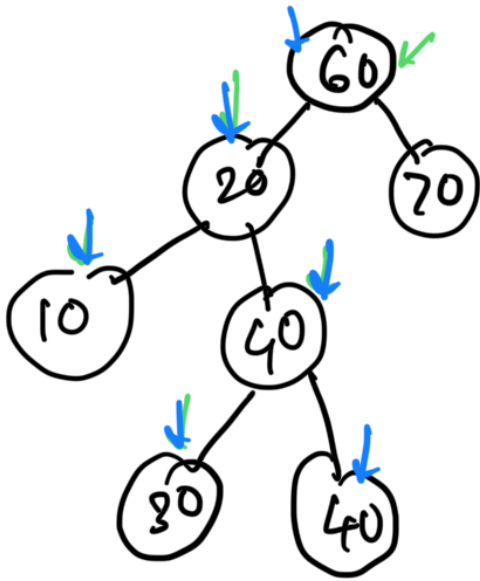
4, 2, 5, 1, 3

Post Order - LC, RC, Root

Post Order - Lc, Rc, Root

4 - , 5 , 2 , 3 , 1
Lc Rc Root
 Lc

Ex



preOrder - first, Lc, Rc

60, 20, 10, 40, 30

40, 70

InOrder - Lc, Root, Rc

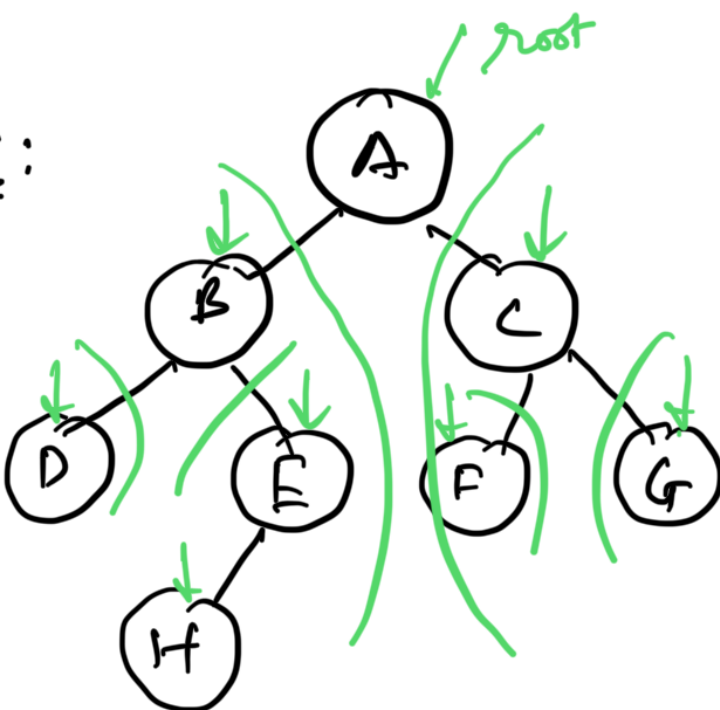
10, 20, 30, 40, 40, 60, 70

Postorder - Lc, Rc, Root

10, 30, 40, 40, 20, 70, 60

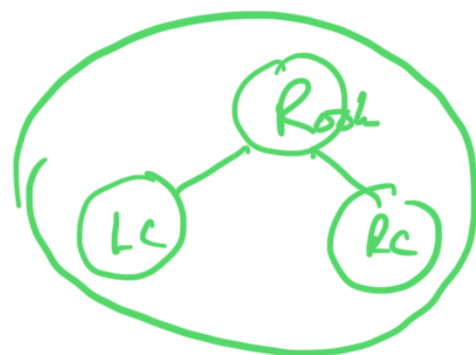
Traversal \Rightarrow InOrder \rightarrow (sorted order) Ascending order
 ↓
 Balanced Tree
 ↓
App^m used

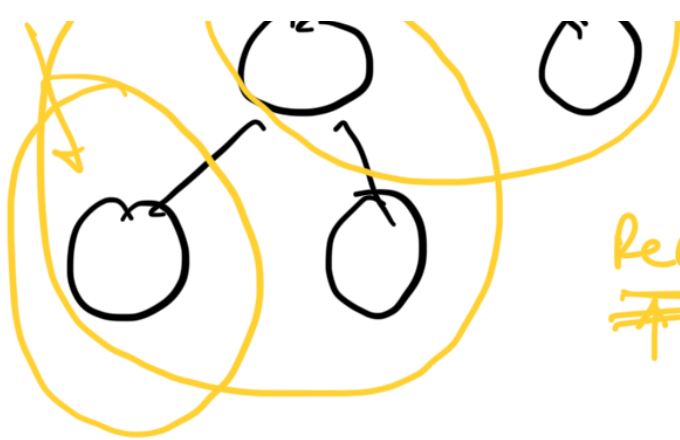
Ex:



Postorder Lc, Rc, Root

D, H, E, B, F, G
 C, A





Order —

1001,
Lc,
Rc

Recursion function

↑
Preorder ()
InOrder ()
Postorder ()

↑

Recursion function.

Iterative fo

length