Suppose,

Preorder :

tree root

[3, 9, 20, 15, 7]

left subtree     right subtree

Inorder :

[9, 3, 15, 20, 7]

root = 3
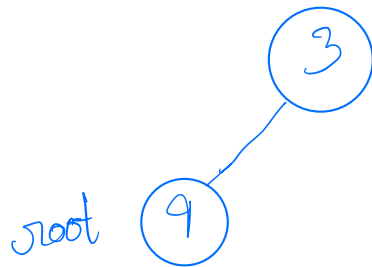
Preorder

[3, 9, 20, 15, 7]

↑
index

Inorder

[9]

3

root  9

Preorder

[ 3, 9, (20), 15, 7]
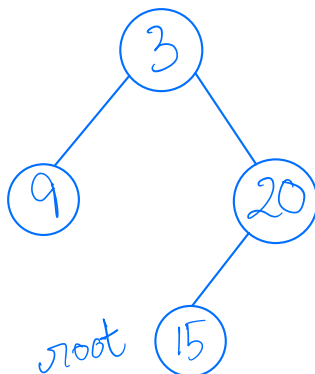         ↑
       index

Inorder → left subtree → right subtree

[ (15), (20), (7) ]
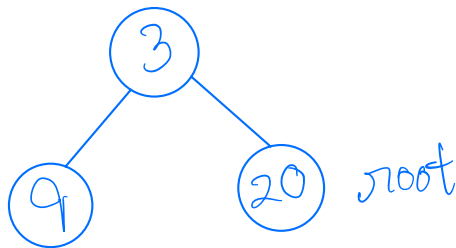


Preorder

[ 3, 9, 20, (15), 7]
              ↑
            index

Inorder

[ (15) ]

Preorder.

$[\ 3,\ 9,\ 20,\ 15,\ ⑦\ ]$

↑
index

Inorder

$[\ ⑦\ ]$



root