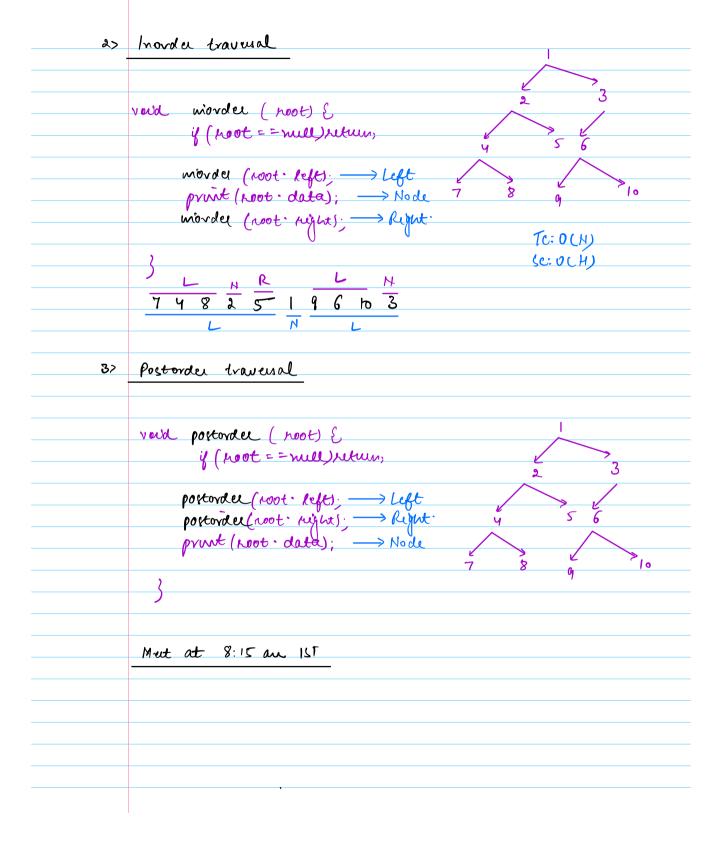
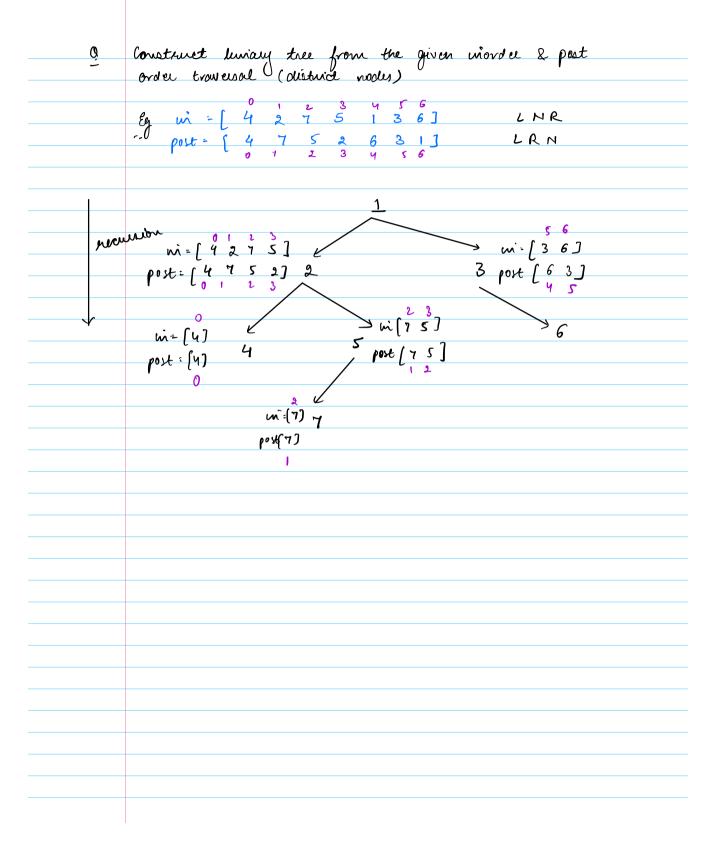


	Burary true - true in	which of roots, # children = {0,1,2}
	1	
		class Node {
	2 3	uit data;
		vit data; Node left, sight
	ч 3 6	Node (n) {
K		data = x:
7	8 9 10	lost = with = mull.
		data = n; left = night = null; }
		1
		}

True traversals
 Preorder traveral Node Left Right
Inorder traversal Left Node Right
Postorder traversal left Right Mode
Level order traversal next class
 Preorder traversal
N L R N L
1 2 4 7 8 5 3 6 9 10
N L R
5 6
7
void preorder (noot) &
y (not == mell) return, 7 8 g 310
print (root · data); -> Node N= # rooks
preorder (root left) -> left H > hight of tree
preorder (noot right); -> Right.
1C: 0 (N)
Se: O(H)



```
0
    Ituative morde traveral
   voud morder ( root) {
        if (not = = mell) return;
        morder (100t. left). - Left
         print (not · data); -> Node
        morder (noot right) -> Right.
     ricusion-
                   > ituation.
      Stack
                       Stack.
     cur : + 24 7 mile will & mill with 5 mill with
           36 A met new & mell
     while (cur): mel ||! st. 6 Empty ()) &
          y (au 1= mel) {
                 ° st. push ( auc)
                   cur = aur lift; // left
           de
                 cur = st.pop ();
                                      // Node
                 print (our dela);
                                      11 Right
                 cure cour hight;
                                          TC:0 (N)
    HW > Iterative preorder &
                                         Sc: 0 (H)
            ituative postorder.
```



Node build (mil], post[], mil, mir, post-R) {
if (mil > mik) rutum mel;
root = new Node (post(post-R]);
// find violes of hoot in viorder away 1) Traverse the viorder away 2) Hashwap (value → violes) for vi[] → TC: 0 (N) 3) Sc: O(N)
$idx = map \cdot gct (noot \cdot data)$ $cntR = inR - idx $
Moot left = build (mi, post, mil, idx-1, postR-cntR-1); moot right = build (mi, post, idx+1, incR, postR-1);
rutur root;
To: 0 (N) Se: 0 (N)

	Photoshop
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	Vis gh
0	ρ_1 ρ_2 ρ_3
BUX.	PI PL
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flash	/ UI VL V3
	B1 B2
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