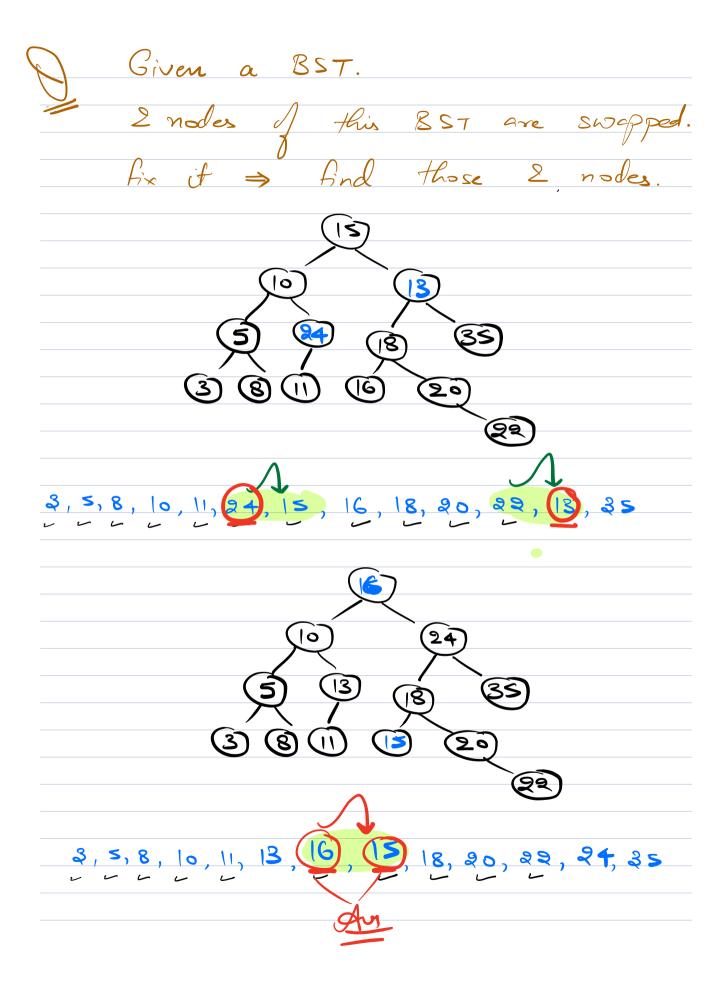
Given a BT. Return the size (no. of modes) of the max BST sustree in the BT. class Tree onfo int min; out max; boolean is BST; int count; ans = 0

```
Tree and check BST (root) &
      ≥ ( root == NULL) 4
                return new Treedof (INT_MAX,
INT_MIN, T; O);
    Treedule left = check BST (root. left),
Tree dule right = check BST (root. right);
    if (left. isBST == True) && (right. isBST == True)
       88 (root. value >, left. max) 88
          ans = max (ans, left.cont + right.cont +1);
         return new Tree ont min (root value, left min), max (root value, right mex, True, left east + right count +1);
    return new Tree de (00, -00);
```



LCA (Lowest Common Ancestor) $7 \Rightarrow (1), (3) \leq 7$ Given a BT & foo nodes (u, v) Pre Order T.C. = 0 (K12)

Breek (10:40)

7, 9
9 37 3 1

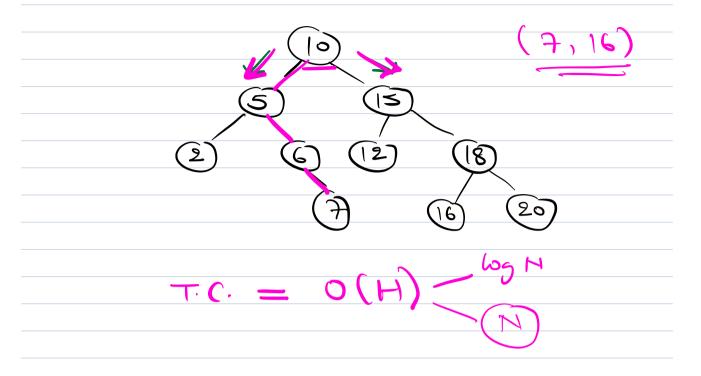
T.C. = O(N) > Post Order

1) 1 in LST, 1 ion RS7

2) 1 = node, 2rd in either left or

Given a 88T.

LCA of 2 nodes in this BST.



boolean find LCA (root) &

if (root == NULL) & return

false;

boolean left = find LCA (root-left);

if (left SS right) q lca = root. value;

Soolean right = find LCA (root-right);

retorn false; Z ((voot. value = = u) | 1)5