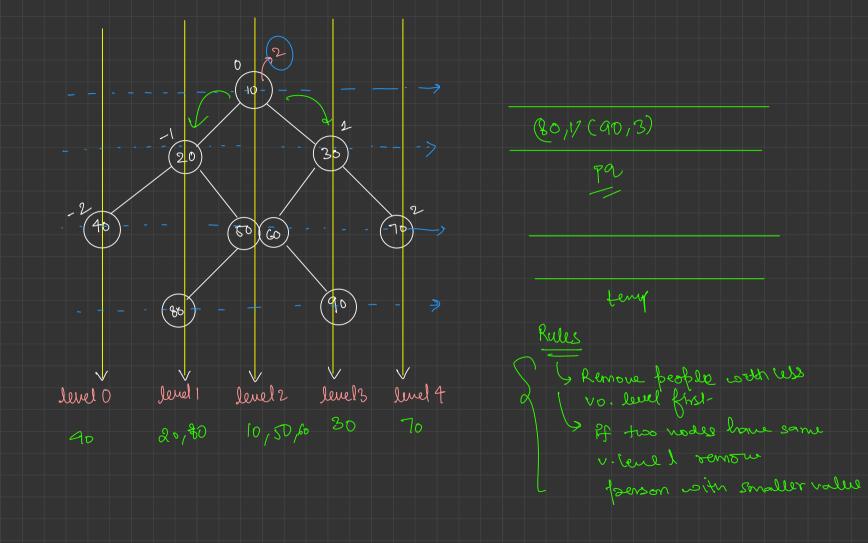


I we want some our own set of rules, applied to que, so nun value exter first comen vo level, and level is same for 2 pooles proonty queul Som own auston bosonty!

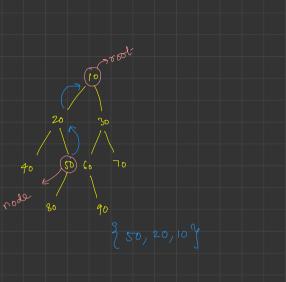


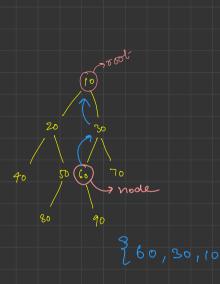
pre order post order dest view ofghe view level Order Traversal Vertical Order Traversal notton view zig zag order traversal

Find a given node in a tree

boolean fend (Node root, ent target) Oif (root = = null) return false; (2) if (roof data = = target) return towe; 3 boolean (Pilc) = find (rost, left, target); (A) of (file = = toue) return true; 5 boolean fire = find (root right, target);
6 of (fire == true) return true; Teturn false

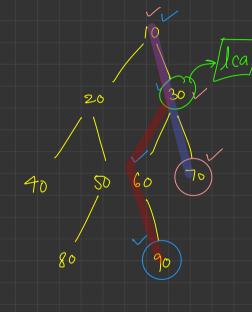
Node to Root Path





```
ArrayList<Integer> n2r = new ArrayList<>();
boolean node2rootPath (Node root, int target) {
    if (root == null) {
  oif (root.data == target) {
       n2r.add(root.data);
   boolean filc = node2rootPath(root.left, target);
  Qif (filc == true) {
       n2r.add(root.data);
 , boolean firc = node2rootPath(root.right, target);
      (firc == true) {
       n2r.add(root.data);
   return false
```

lca (lowest Common ancestor)



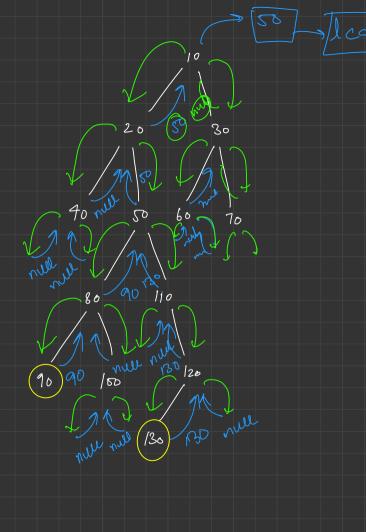
90 -> } 90, 60, 30, 10}

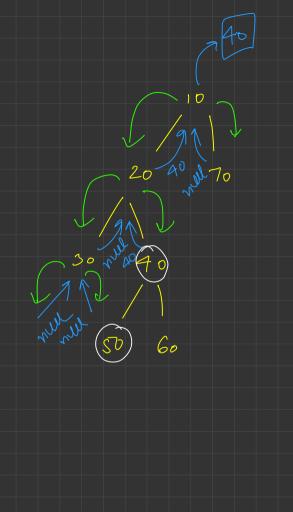


n = 90, n2=70 +(:01N) q sc.0(1) (30

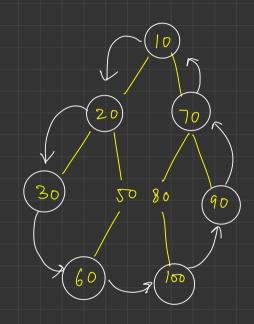
```
public static Node findLCA(Node node,int n1,int n2) {
      (node == null) {
    if (node.data == n1 || node.data == n2) {
        return node;
  Wode lc = findLCA(node.left, n1, n2);
  1 Node rc = findLCA(node.right, n1, n2);
       return node;
    if (lc != null) {
```

2 TC: D(N) (V) 2 SC: O(N)





Boundry Traversal



{10,20,30,60,100,90,70,10}

Bounday of a tree 1 Bottom boall + Right wall go (ofght) only

go (sigut)

if sigut is not there

add after call

add after call before call

