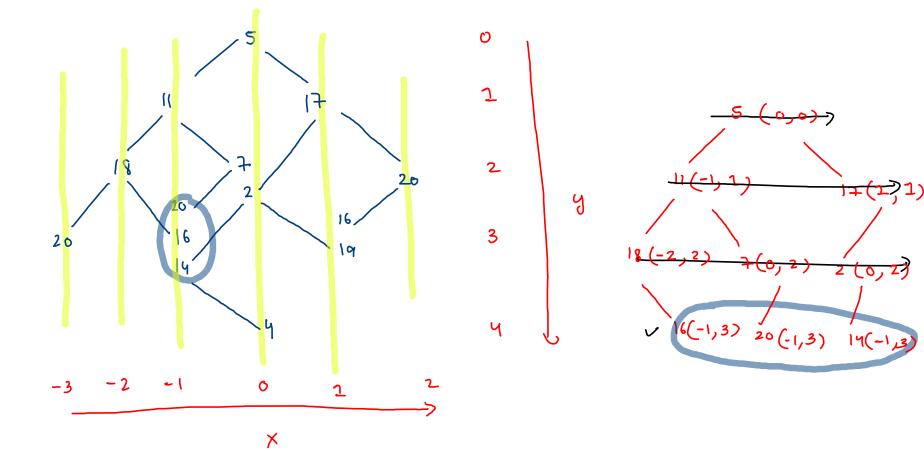
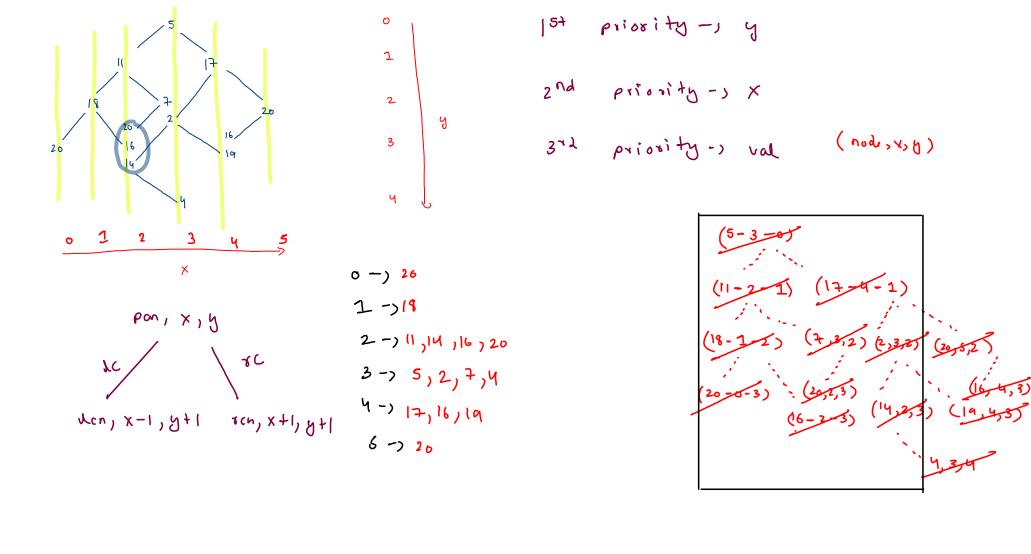
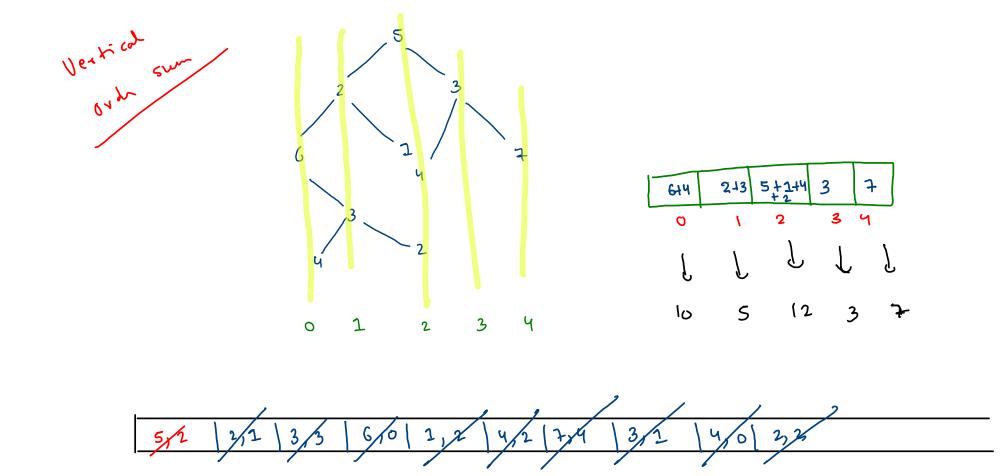


2 -> 20

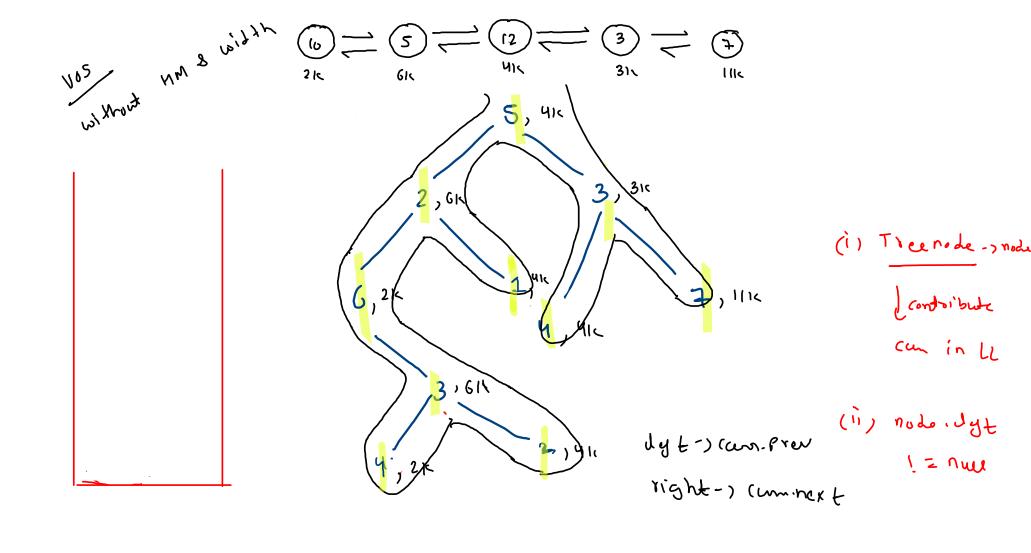


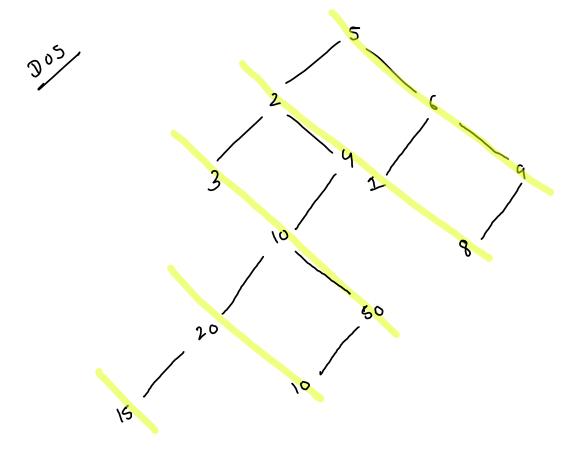




V05

ALX
LL U (SU)

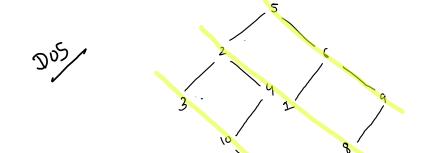


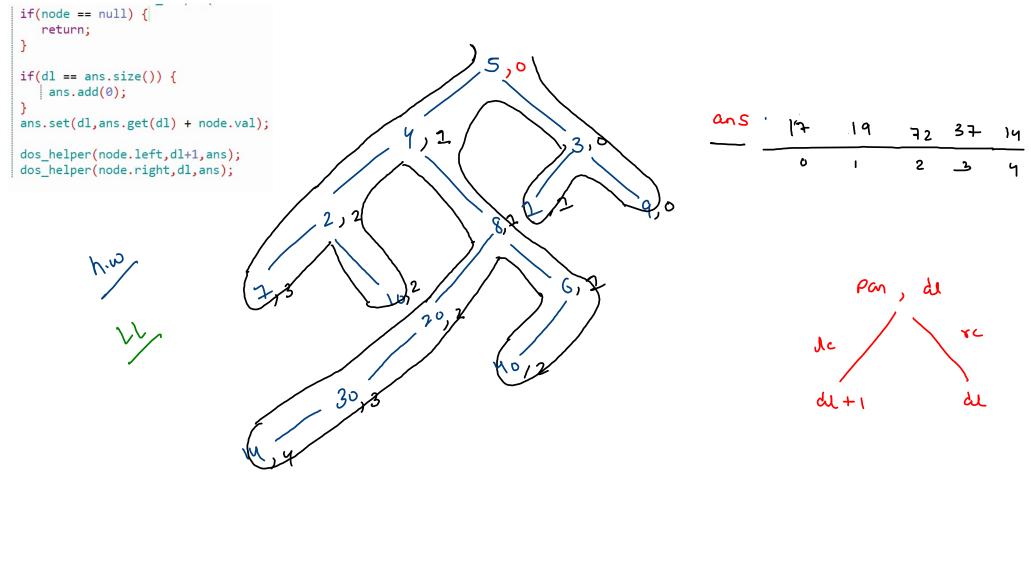


$$\frac{5 \cdot 6 \cdot 9}{2 \cdot 4 \cdot 1} = \frac{20}{8} - \frac{20}{15}$$

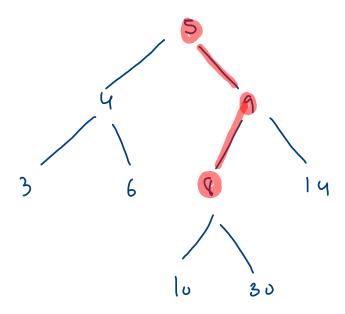
$$\frac{3 \cdot 10 \cdot 50}{-7 \cdot 63}$$

$$\frac{20 \cdot 10}{-7 \cdot 30} = \frac{-7 \cdot 30}{15}$$





NZRP



data = 8

[8], 9, 5]

```
if(node == null) {
    return false;
if(node.val == data) {
    ans.add(node);
    return true;
boolean lc = n2rp_helper(node.left,data,ans);
if(lc == true) {
    ans.add(node);
    return true;
boolean rc = n2rp_helper(node.right,data,ans);
if(rc == true) {
    ans.add(node);
    return true;
return false;

    Stop Share
    Stop Share
```

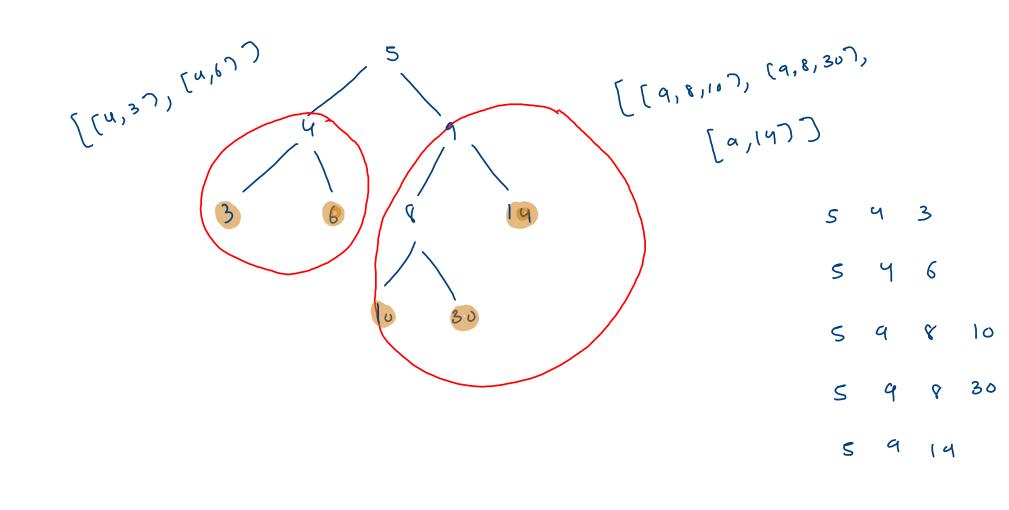
data = 8 14 30 U

ans









```
[[a,6,d],[a,5,e,2), [a,c,1,g),
      [[6,2],[be1])
                                   ( [c,1,97)
                                       [c, b, h)
                                                       return bl;
                                                       //Leaf node
[cas]
               b
                    [[e,1)]
                                                       return bl:
                                      (3,9),
                                         [1,42)
                                        (ch)
                                                     return r2lp;
```

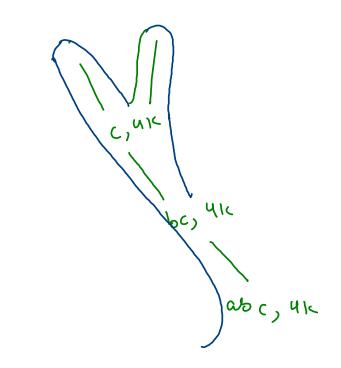
```
public static ArrayList<ArrayList<Integer>> rootToAllLeafPath(TreeNode root) {
    if(root == null) {
       ArrayList<ArrayList<Integer>>bl = new ArrayList<>();
   if(root.left == null && root.right == null) {
       ArrayList<ArrayList<Integer>>bl = new ArrayList<>();
        ArrayList<Integer>list = new ArrayList<>();
       list.add(root.val);
       bl.add(list);
   ArrayList<ArrayList<Integer>>r2lp = new ArrayList<>();
   ArrayList<ArrayList<Integer>>lans = rootToAllLeafPath(root.left);
   ArrayList<ArrayList<Integer>>rans = rootToAllLeafPath(root.right);
   for(ArrayList<Integer>lctoleafpath : lans) {
       lctoleafpath.add(0,root.val);
       r2lp.add(lctoleafpath);
   for(ArrayList<Integer>rctoleafpath : rans) {
       rctoleafpath.add(0,root.val);
       r2lp.add(rctoleafpath);
```

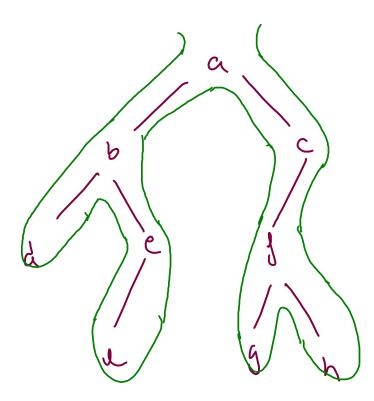
[a,c,J,h] ]

811 -> [abc,

a b c'

81c - ) [ 4]c





```
public static void r2lp_helper(TreeNode node,ArrayList<Integer>asf,ArrayList<ArrayList<Integer>>ans) {
    if(node == null) {
        return;
    }
    if(node.left == null && node.right == null) {
        //leaf node
        asf.add(node.val);
        ArrayList<Integer>list = new ArrayList<>(asf);
        ans.add(list);
        asf.remove(asf.size()-1);
        return;
    }
    asf.add(node.val);
    r2lp_helper(node.left,asf,ans);
    r2lp_helper(node.right,asf,ans);
    asf.remove(asf.size()-1);
}
```

asj 41c