Question: https://leetcode.com/problems/house-robber-iii/

So we can consider 2 possible cases that is to include the root or exclude the root

the explanation is written in copy and the link: <https://www.youtube.com/watch?v=nHR8ytpzz7c>

Code:

class Solution {

public int rob(TreeNode root) {

int ar[] = robhelper(root);

return Math.max(ar[0],ar[1]);

}

public int[] robhelper(TreeNode root){

int[] lp={0,0},rp={0,0};

int ar[]={0,0};

if(root==null){

return ar;

}

if(root.left!=null){

lp=robhelper(root.left);

}

if(root.right!=null){

rp=robhelper(root.right);

}

ar[0]=root.val+lp[1]+rp[1];

ar[1]=Math.max(lp[0],lp[1])+Math.max(rp[0],rp[1]);

return ar;

}

}

Github Link :<https://lnkd.in/ecwtJeaz>