

```
public static Pair helper(TreeNode node) {
    if(node == null) {
        return new Pair(Integer.MIN_VALUE,Integer.MIN_VALUE);
    }

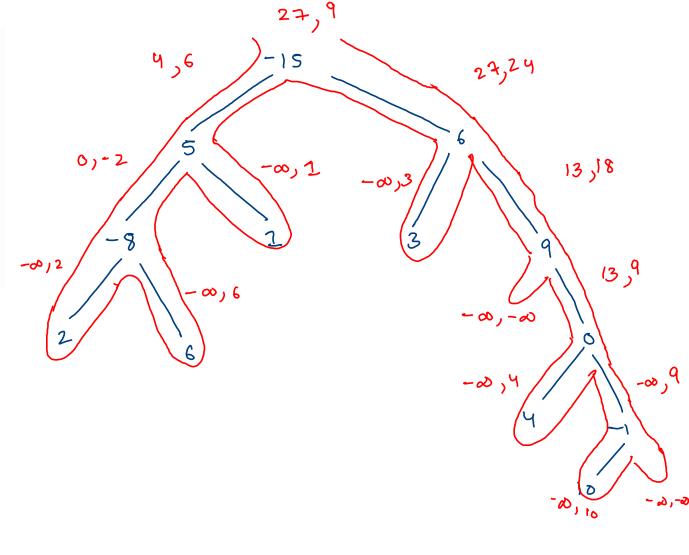
    else if(node.left == null && node.right == null) {
        return new Pair(Integer.MIN_VALUE,node.val);
    }

    Pair lp = helper(node.left);
    Pair rp = helper(node.right);

    int n2L = Math.max(lp.n2lmps,rp.n2lmps) + node.val;
    int factor = Integer.MIN_VALUE;
    if(node.left != null && node.right != null) {
        factor = lp.n2lmps + node.val + rp.n2lmps;
    }

    int L2L = Math.max(Math.max(lp.l2lmps,rp.l2lmps), factor);
    return new Pair(L2L,n2L);
}
```



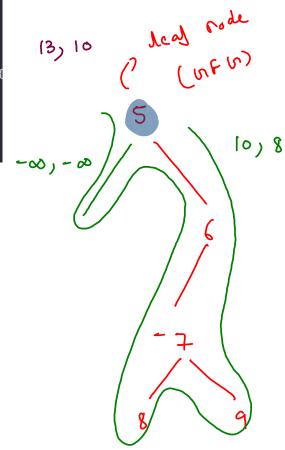


```
int maxPathSum(Node root)
{
    // code here
    Pair rp = helper(root);

if((root.left != null && root.right == null) || (root.left == null && root.right != null)) |
    return Math.max(rp.12lmps,rp.n2lmps);
}

return rp.12lmps;
}
```

ans -) 13

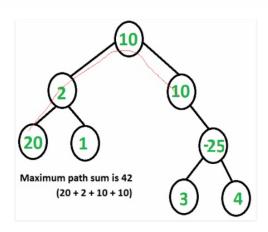


```
public int helper(Node node) {
   if(node == null) {
                                                       Manis
       return Integer.MIN_VALUE;
                                                                                                 -15
                                                                                                                       24
   if(node.left == null && node.right == null) {
       return node.data;
   int la = helper(node.left); //la is n2lmps for left child
   int ra = helper(node.right); //ra is n2lmps for right child
                                                                                                                                           18
                                                                                                                   3
   int factor = Integer.MIN_VALUE;
   if(node.left != null && node.right != null) {
       factor = la + node.data + ra;
   L2LMPS = Math.max(factor,L2LMPS);
                                                                                                                                                      9
   int n21 = Math.max(la,ra) + node.data;
   return n21;
                                                                                                                                                           9
                           121=-XXXXX27
                                                                                                                                               10
```

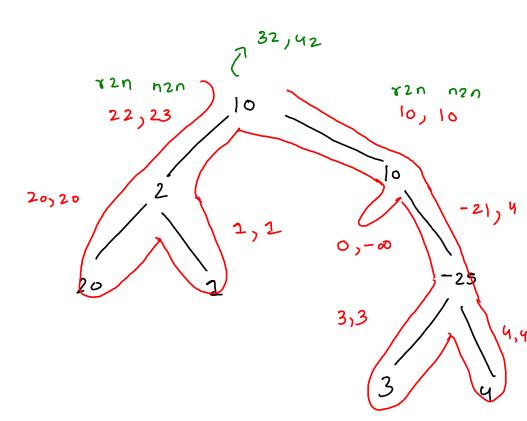
Pair 2 int nanmes; int Y2 nmps; des 1P int 11 = Lp. rznmps + node.daa; int 12 = rp. rznmps + node.data; int 13 = dp. r2nmps + node doda + rp. rzn-rsj int 14 z node data; 82 nmps z max(11, 12, 14)) 12 n mps - max (11, 12, 13, 14, dr. n2 n mps, 1 p. n2 n mps);

13, 16 int 11 = up. r2 nmps + node.daa; int 12 = rp. rznmps + node.data; int 13 = dp. r2nmps+ node.dada +rp. rznmps; int 14 = node.data; 82 nmps = max(11, 12, 14); 12 n mps = max (11, 12, 13, 14, dr. n2 n mps, 1 p. n2 n mps);

```
public Pair helper(TreeNode root) {
    if(root == null) {
        return new Pair(0,Integer.MIN_VALUE);
    }
    else if(root.left == null && root.right == null) {
        return new Pair(root.val,root.val);
    }
    Pair lp = helper(root.left);
    Pair rp = helper(root.right);
    int f1 = root.val + lp.r2nmps; //root to left sub-tree node max path sum int f2 = root.val + rp.r2nmps; //root right sub-tree node max path sum int f3 = lp.r2nmps + root.val + rp.r2nmps; //left sub-tree node to right sub-tree node int f4 = root.val;
    int r2n = max(f1,f2,f4);
    int n2n = max(f1,f2,f3,f4,lp.n2nmps,rp.n2nmps);
    return new Pair(r2n,n2n);
}
```



(82n, n2n)

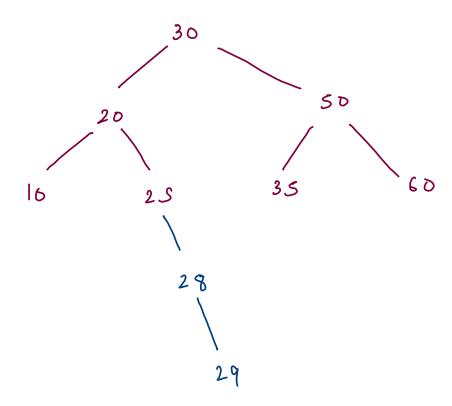


studic me aring class A ? class [Static int b) A ol = new A(); static non - static A 02 = now A(); (not bounded (bo unded with an object) with object)

class LL ? Node head; int size; public void ns()? 3 public Static Junz () { class LL ? class Node ? main () { LL obj = naw LL()j Obj. Junk); LL. Junz (u1, a2); new Node()

```
Outor class [
public class StaticNestedClassDemo
   public static void main(String[] args)
       // accessing a static nested class
                                                                                                           static inner class?
       OuterClass.StaticNestedClass nestedObject = new OuterClass.StaticNestedClass();
       nestedObject.display();
public class InnerClassDemo
                                                                                              Outor class [
   public static void main(String[] args)
       // accessing an inner class
       OuterClass outerObject = new OuterClass();
       OuterClass.InnerClass innerObject = outerObject.new InnerClass();
                                                                                                             inner class s
       innerObject.display();
```

BUL



add (28)

add (29)