Max path sum from leaf to leaf

https://www.geeksforgeeks.org/find-maximum-path-sum-two-leaves-binary-tree/

class Solution {

int res=Integer.MIN\_VALUE;

public int maxPathSum(TreeNode root)

{

solve(root);

return res;

}

public int solve(TreeNode root)

{

if(root==null)return 0;

int l=solve(root.left);

int r=solve(root.right);

int temp=Math.max(l,r)+root.val; //contributing to the bigger tree(building answer to parent root . So we return this)

if(root.right==null && root.left===null) //if this is root we have option to select the root or its the child node . Selecting max

{

temp=Math.max(temp,root.val);

}

int ans=Math.max(l+r+root.val,temp); //selecting the maximum child sum or whole parent sum

res=Math.max(res,ans);

return temp;

}

}