# 124. Binary Tree Maximum Path Sum

## SOLUTION IN JAVA

class Solution {

public int maxPathSum(TreeNode root) {

maxPathSumDownFrom(root);

return ans;

}

private int ans = Integer.MIN\_VALUE;

private int maxPathSumDownFrom(TreeNode root) {

if (root == null)

return 0;

final int l = Math.max(maxPathSumDownFrom(root.left), 0);

final int r = Math.max(maxPathSumDownFrom(root.right), 0);

ans = Math.max(ans, root.val + l + r);

return root.val + Math.max(l, r);

}

}