

Maximum Path Sum Binary Tree III

```
1 class Solution(object):
2     def maxPathSum(self, root):
3         """
4         input: TreeNode root
5         return: int
6         """
7         # write your solution here
8         self.max = float('-inf')
9         self.helper(root)
10        return self.max
11
12    def helper(self, root):
13        if not root:
14            return 0
15        l = self.helper(root.left)
16        r = self.helper(root.right)
17        self.max = max(self.max, root.val, root.val + l, root.val + r)
18        return max(root.val, root.val + l, root.val + r)
```