Diameter of Binary Tree

class Solution:

def diameterOfBinaryTree(self, root: TreeNode) -> int:

self.ans = 1

def helper(node):

if not node:

return 0

L = helper(node.left)

R = helper(node.right)

self.ans = max(self.ans, L+R+1)

return max(L,R) + 1

helper(root)

return self.ans -1