**Justin\_Tree\_0543. Diameter of Binary Tree**

**Concept:**

找出 root.right 跟 root.left 的深度

再加上 1 (root)

算步數第一個不用算，因此最後 -1

**Code:**

# Definition for a binary tree node.

# class TreeNode:

# def \_\_init\_\_(self, x):

# self.val = x

# self.left = None

# self.right = None

class Solution:

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

self.ans = 1

def depth(node):

if not node: return 0

L = depth(node.left)

R = depth(node.right)

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

return max(L, R) + 1

depth(root)

return self.ans - 1