

104. Maximum Depth of Binary Tree

Easy

Given the root of a binary tree, return its maximum depth.

A binary tree's maximum depth is the number of nodes along the longest path from the root node down to the farthest leaf node.

Example 1

Input: root = [3,9,20,null,null,15,7]

Output: 3

```
1  from typing import Optional
2
3  class TreeNode:
4      def __init__(self, val=0, left=None, right=None):
5          self.val = val
6          self.left = left
7          self.right = right
8
9  class Solution:
10     def maxDepth(self, root:Optional[TreeNode]) -> int:
11         if not root:
12             return 0
13
14         left_value = self.maxDepth(root.left)
15         right_value = self.maxDepth(root.right)
16
17         return max(left_value, right_value) + 1
```

