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이진 트리의 최대 깊이를 구하라.
Input: root = [3,9,20,null,null,15,7]
Output: 3
# Definition for a binary tree node.
# class TreeNode:
    def __init__(self, val=0, left=None, right=None):
#
       self.val = val
#
       self.left = left
#
       self.right = right
1.브루트포스
class Solution:
  def maxDepth(self, root: TreeNode) -> int:
     def recur_tree(result, node, depth):
       if node == None:
          return
       recur_tree(result, node.left, depth + 1)
       recur_tree(result, node.right, depth + 1)
       result.add(depth)
     result = \{0\}
     recur_tree(result, root, 1)
     return max(result)
2.bfs
class Solution:
  def maxDepth(self, root: TreeNode) -> int:
     result = 0
     if root == None:
       return 0
     q = collections.deque([root])
     while len(q) > 0:
       result += 1
       for _ in range(len(q)):
          node = q.popleft()
          if node.left != None:
             q.append(node.left)
          if node.right != None:
             q.append(node.right)
     return result
```

▶ 트리의 레벨 탐색은 bfs를 이용한다.