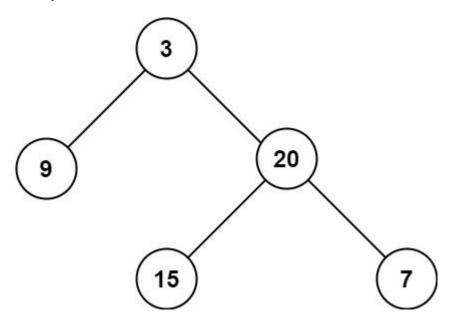
Maximum Depth of Binary Tree

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

Example 2:

Input: root = [1,null,2]

Output: 2

Constraints:

- The number of nodes in the tree is in the range [0, 104].
- -100 <= Node.val <= 100

```
/**
* Definition for a binary tree node.
 * public class TreeNode {
       public int val;
 *
       public TreeNode left;
       public TreeNode right;
 *
       public TreeNode(int val=0, TreeNode left=null, TreeNode right=null) {
           this.val = val;
 *
           this.left = left;
           this.right = right;
 *
       }
 */
public class Solution {
    int maxVal = 0;
    public int MaxDepth(TreeNode root) {
        Traverse(root, 1);
        return maxVal;
    }
    void Traverse(TreeNode root, int depth)
    {
        if(root == null)
        {
            return;
        }
        if(depth > maxVal)
            maxVal = depth;
        }
        depth ++;
        Traverse(root.left, depth);
        Traverse(root.right, depth);
    }
}
```