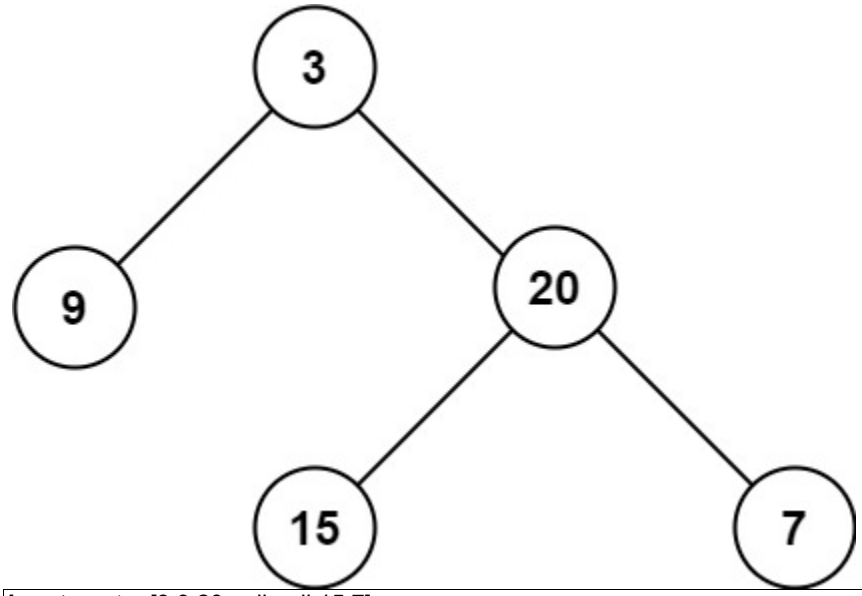
Leetcode Problem 1. (Easy)

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, 10^4].
- -100 <= Node.val <= 100

Link: https://leetcode.com/problems/maximum-depth-of-binary-tree/

```
class Solution {
    public int maxDepth(TreeNode root) {
```

```java
    if (root == null) {
        return 0;
    }
    int leftDepth = maxDepth(root.left);
    int rightDepth = maxDepth(root.right);
    return 1 + Math.max(leftDepth, rightDepth);
}
}
```