Given a binary tree, find its maximum depth.

The maximum depth is the number of nodes along the longest path from the root node down to the farthest leaf node.

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\* Definition for a binary tree node.

\* public class TreeNode {

\* int val;

\* TreeNode left;

\* TreeNode right;

\* TreeNode(int x) { val = x; }

\* }

\*/

public class Solution {

public int maxDepth(TreeNode root) {

if (root == null) return 0;

else{

if(root.left == null && root.right == null) return 1;

else {

int dl = maxDepth(root.left);

int dr = maxDepth(root.right);

return dl>dr?dl+1:dr+1;

}

}

}

}