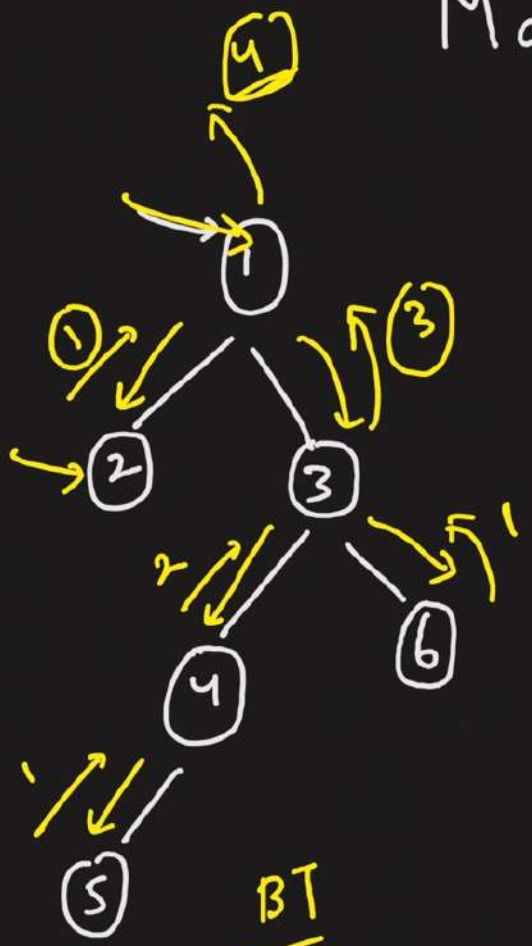
Maximum Depth of Binary Tree



$1 + \max(l, r)$

$1 + \max(1, 0)$

$1 + \max(0, 0)$

$1 + \max(2, 1)$

Java

Autocomplete

```java
/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *     int val;
 *     TreeNode left;
 *     TreeNode right;
 *     TreeNode() {}
 *     TreeNode(int val) { this.val = val; }
 *     TreeNode(int val, TreeNode left, TreeNode right) {
 *         this.val = val;
 *         this.left = left;
 *         this.right = right;
 *     }
 * }
 */
class Solution {
    public int maxDepth(TreeNode root) {
        if(root == null) return 0;

        int lh = maxDepth(root.left);
        int rh = maxDepth(root.right);

        return 1 + Math.max(lh, rh);
    }
}
```