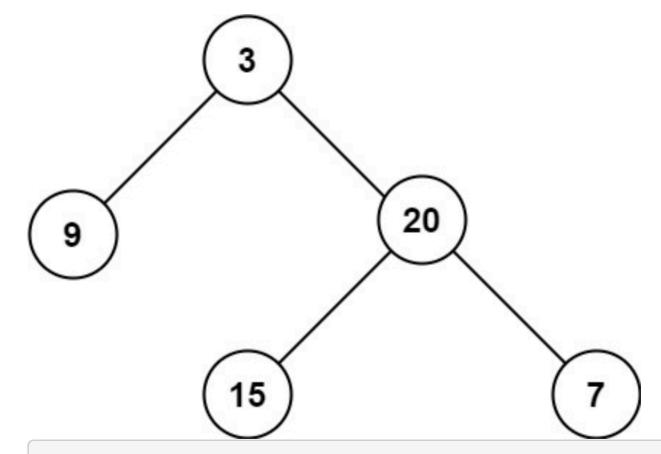
Maximum Depth of Binary Tree

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]

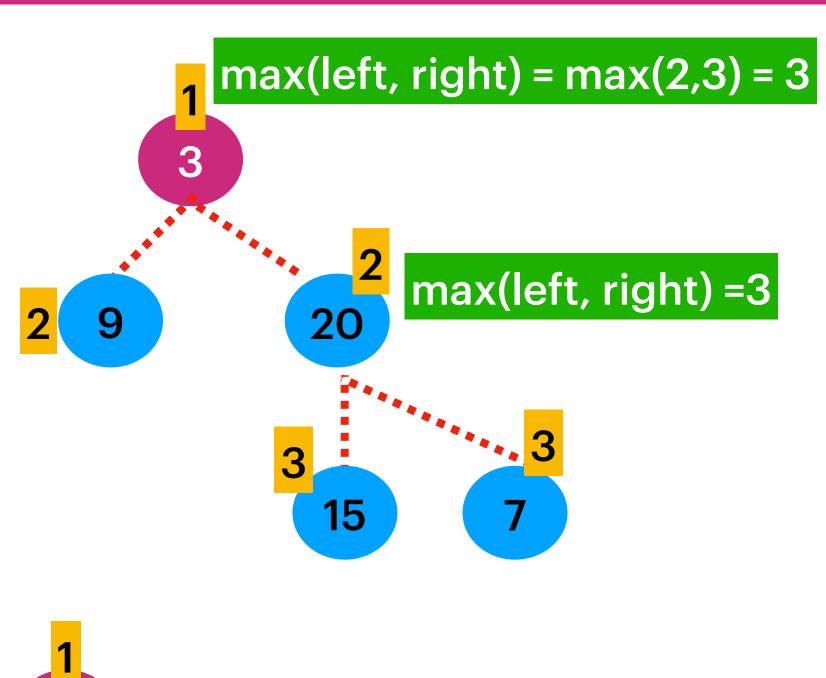
Output: 2

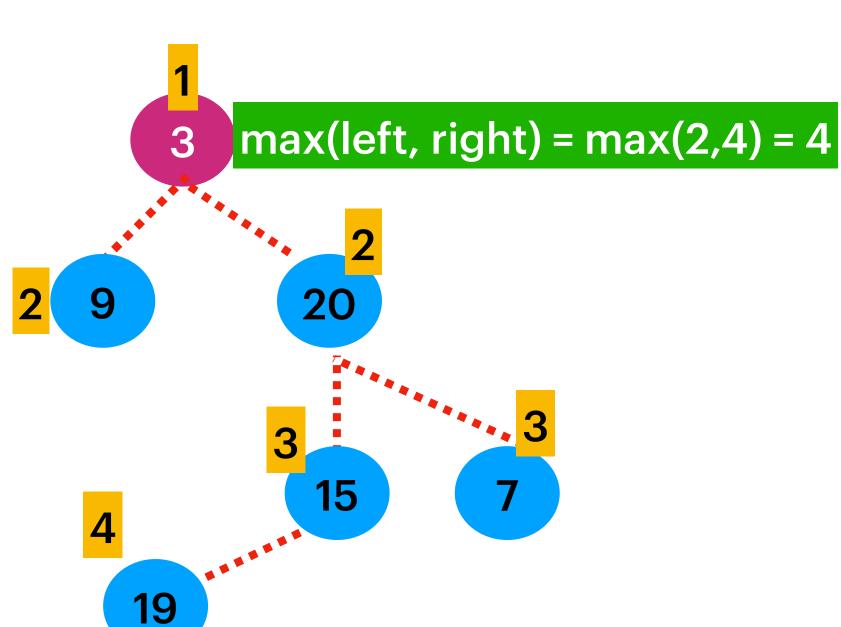
Constraints:

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

Maximum Depth of Binary Tree Recursive

From Root Find the depth of leftSubTree & Find the depth of Right Subtree, take max(leftDept, rightDepth)

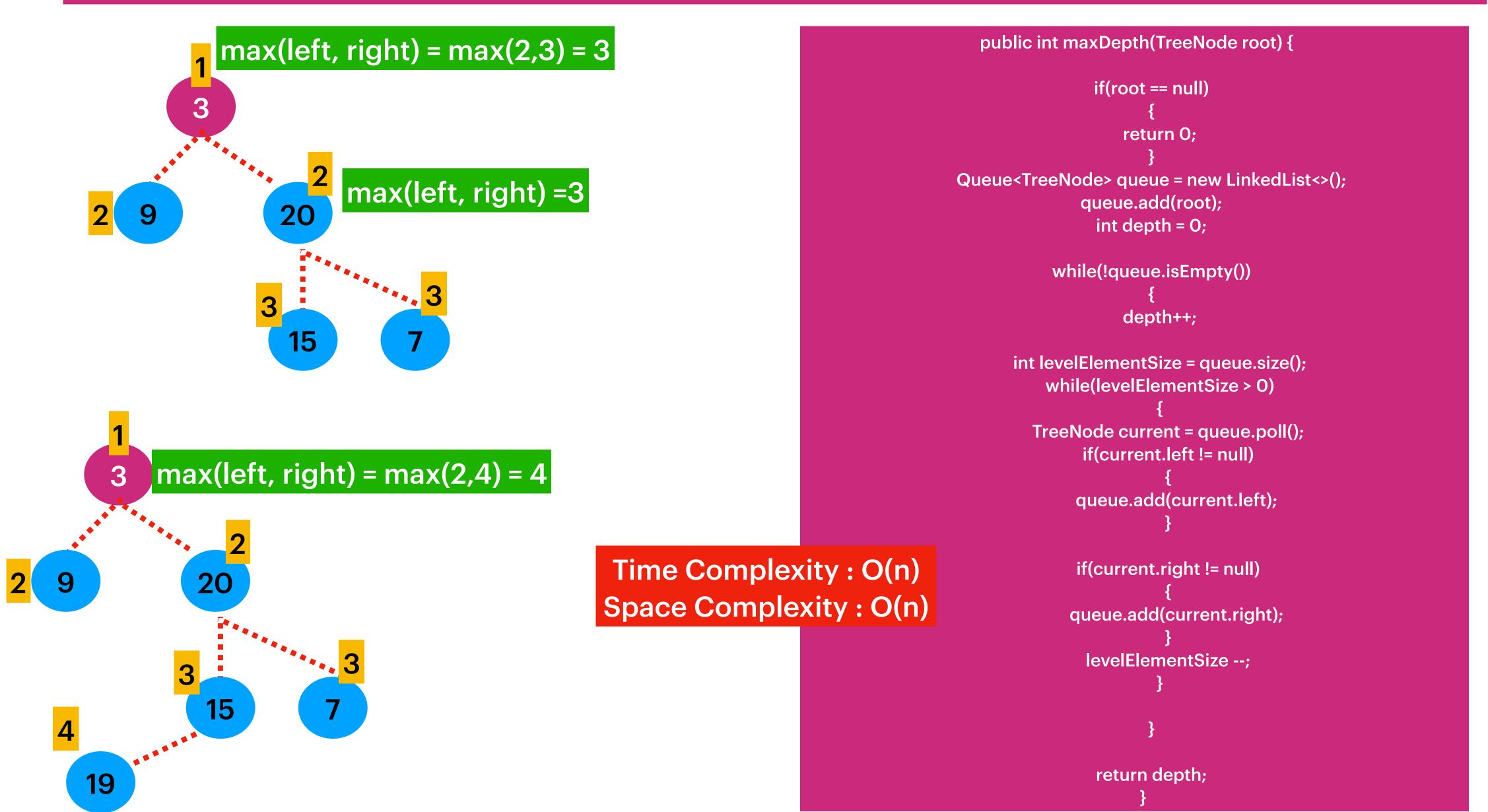




Time Complexity: O(n)
Space Complexity: O(n)

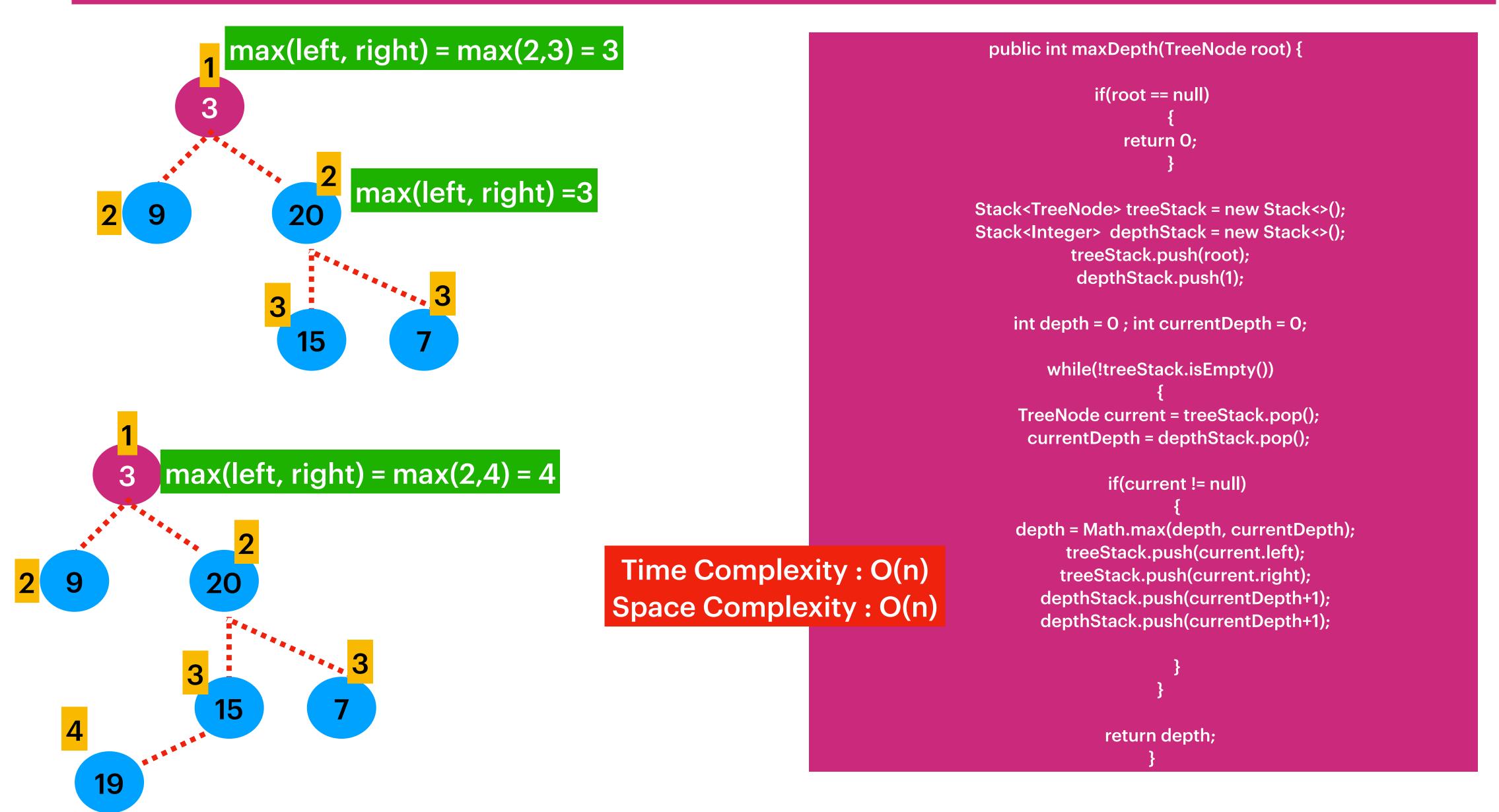
Maximum Depth of Binary Tree Iterative LevelOrder [BFS]

From Root Find the depth of leftSubTree & Find the depth of Right Subtree, take max(leftDept, rightDepth)



Maximum Depth of Binary Tree Iterative LevelOrder [DFS]

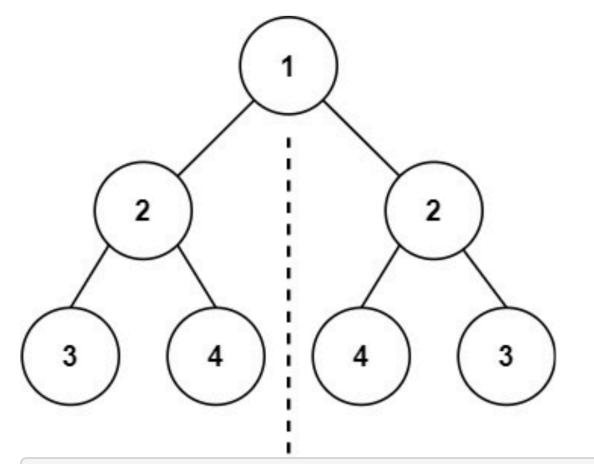
From Root Find the depth of leftSubTree & Find the depth of Right Subtree, take max(leftDept, rightDepth)



Symmetric/Mirror Tree

Given the root of a binary tree, check whether it is a mirror of itself (i.e., symmetric around its center).

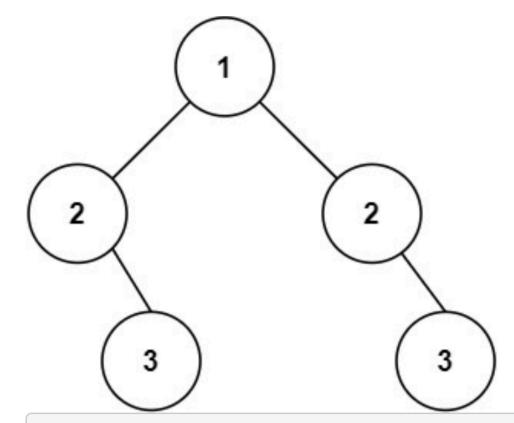
Example 1:



Input: root = [1,2,2,3,4,4,3]

Output: true

Example 2:



Input: root = [1,2,2,null,3,null,3]

Output: false

Constraints:

- The number of nodes in the tree is in the range [1, 1000].
- -100 <= Node.val <= 100

Follow up: Could you solve it both recursively and iteratively?

Symmetric/Mirror Tree

Mirror Tree = After exchange of of left and right sub tree, we should get the actual tree.

