







Problem 2: Find the **Maximum Depth** of Binary Tree. Maximum Depth is the **count of nodes of the longest path** from the root node to the leaf node.

```
class TreeNode:
  def __init__(self, val=0, left=None, right=None):
    self.val = val
    self.left = left
    self.right = right
def maxDepth(root):
  if root is None:
    return 0
  left_depth = maxDepth(root.left)
  right_depth = maxDepth(root.right)
  return max(left_depth, right_depth) + 1
root = TreeNode(3)
root.left = TreeNode(9)
root.right = TreeNode(20)
root.right.left = TreeNode(15)
root.right.right = TreeNode(7)
depth = maxDepth(root)
print(depth)
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                                                          input
```

```
Problem 6: Given two Binary Tree. Write a program to check if two trees are
identical or not.
class Node:
  def __init__(self, value):
    self.value = value
    self.left = None
    self.right = None
def are_identical(root1, root2):
  if root1 is None and root2 is None:
    return True
  if root1 is None or root2 is None:
    return False
  if root1.value != root2.value:
    return False
  return are_identical(root1.left, root2.left) and are_identical(root1.right,
tree1 = Node(1)
```

tree1.left = Node(2) tree1.right = Node(3)

```
tree1.left.right = Node(4)

tree2.left.right = Node(5)

tree2.left = Node(2)

tree2.right = Node(3)

tree2.left.left = Node(4)

tree2.left.right = Node(5)

if are_identical(tree1, tree2):
    print("The trees are identical.")

else:
    print("The trees are not identical.")
```

```
tree1 = Node(1)
tree1.left = Node(2)
tree1.right = Node(3)
```

```
tree1.left.left = Node(4)

tree1.left.right = Node(5)

tree2 = Node(1)

tree2.left = Node(2)

tree2.right = Node(3)

tree2.left.left = Node(4)

tree2.left.right = Node(5)

if are_identical(tree1, tree2):
    print("The trees are identical.")

else:
    print("The trees are not identical.")
```

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The trees are identical.

The trees are identical.