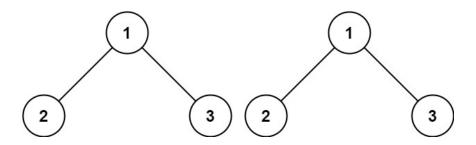
100. Same Tree

Created	@November 26, 2022 11:13 AM
⊙ Difficulty	Easy
□ LC Url	https://leetcode.com/problems/same-tree/
∷ Tag	DFS NEET Tree
≡ Video	

Given the roots of two binary trees p and q, write a function to check if they are the same or not.

Two binary trees are considered the same if they are structurally identical, and the nodes have the same value.

Example 1:

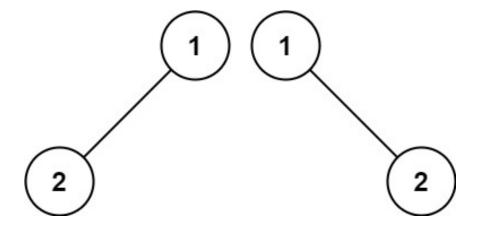


Input: p = [1,2,3], q = [1,2,3]

Output: true

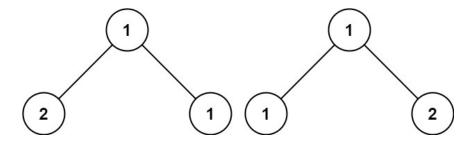
Example 2:

100. Same Tree



```
Input: p = [1,2], q = [1,null,2]
Output: false
```

Example 3:



```
Input: p = [1,2,1], q = [1,1,2]
Output: false
```

Constraints:

- The number of nodes in both trees is in the range [0, 100].
- 10 4 <= Node.val <= 10 4

Solution

```
# Definition for a binary tree node.
# class TreeNode:
# def __init__(self, val=0, left=None, right=None):
# self.val = val
```

100. Same Tree 2

```
# self.left = left
# self.right = right
class Solution:
    def isSameTree(self, p: Optional[TreeNode], q: Optional[TreeNode]) -> bool:
        if not p and not q:
            return True
        if not p or not q:
            return False
        if p.val != q.val:
            return Self.isSameTree(p.left, q.left) and self.isSameTree(p.right, q.right)
```

写的非常好:<u>写树算法的套路框架 - 相同的树 - 力扣(LeetCode)</u>

100. Same Tree 3