

100. Same Tree

题目描述: <https://leetcode.com/problems/same-tree/>

判断两颗二叉树是不是一样的

解题思路:

递归判断左子树与右子树。注意以下情况:

1. 一边为空另一半不是, 不相等
2. 两边都是空, 相等

代码:

```
/**
 * Definition for a binary tree node.
 * struct TreeNode {
 *     int val;
 *     TreeNode *left;
 *     TreeNode *right;
 *     TreeNode(int x) : val(x), left(NULL), right(NULL) {}
 * };
 */
class Solution {
public:
    bool isSameTree(TreeNode* p, TreeNode* q) {
        if(p == NULL && q == NULL)
            return true;
        if(p == NULL || q == NULL)
            return false;
        if(p->val == q->val){
            bool left = isSameTree(p->left, q->left);
            if(!left)
                return false;
            bool right = isSameTree(p->right, q->right);
            if(!right)
                return false;
            return true;
        }
        else
            return false;
    }
};
```