Leetcode tree problem

Given two binary trees, 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.

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\* Definition for a binary tree node.

\* struct TreeNode {

\* int val;

\* TreeNode \*left;

\* TreeNode \*right;

\* TreeNode() : val(0), left(nullptr), right(nullptr) {}

\* TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}

\* TreeNode(int x, TreeNode \*left, TreeNode \*right) : val(x), left(left), right(right) {}

\* };

\*/

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)

return false;

return isSameTree(p->right,q->right)&&isSameTree(p->left,q->left);

}

};