Problem Link:

<https://leetcode.com/problems/symmetric-tree/?envType=daily-question&envId=2025-01-29>

Solution:

/\*\*

\* 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 isSymmetric(TreeNode\* root)

{

if(!root)

{

return true;

}

return isMirror(root->left, root->right);

}

bool isMirror(TreeNode\* t1, TreeNode\* t2) {

if(!t1 && !t2)

{

return true;

}

if(!t1 || !t2)

{

return false;

}

return (t1->val == t2->val) && isMirror(t1->left, t2->right) && isMirror(t1->right, t2->left);

}

};