75 Days of Code Day 34 Problem 104. 872. Leaf-Similar Trees

Type:BST/dfs

Consider all the leaves of a binary tree, from left to right order, the values of those leaves form a leaf value sequence.

For example, in the given tree above, the leaf value sequence is (6, 7, 4, 9, 8).

Two binary trees are considered leaf-similar if their leaf value sequence is the same.

Return true if and only if the two given trees with head nodes root1 and root2 are leaf-similar.

Example 1:

Output: true Example 2:

Input: root1 = [1,2,3], root2 = [1,3,2]

Output: false [1,null,2]
Output: 2

Solution using DFS

1. Traverse the list with recursion

```
function leafSimilar(root1: TreeNode | null, root2: TreeNode | null): boolean {
    const getLeafNode = (root: TreeNode | null, arr: number[]) => {
        if (root === null) {
            return;
        }
        if (root.left === null && root.right === null) {
            arr.push(root.val);
        }
        getLeafNode(root.left, arr);
        getLeafNode(root.right, arr);
        };
        const list1: number[] = [];
        const list2: number[] = [];
        getLeafNode(root1, list1);
        getLeafNode(root2, list2);
        return JSON.stringify(list1) === JSON.stringify(list2);
    }
}
```

