872. Leaf-Similar Trees

Solved

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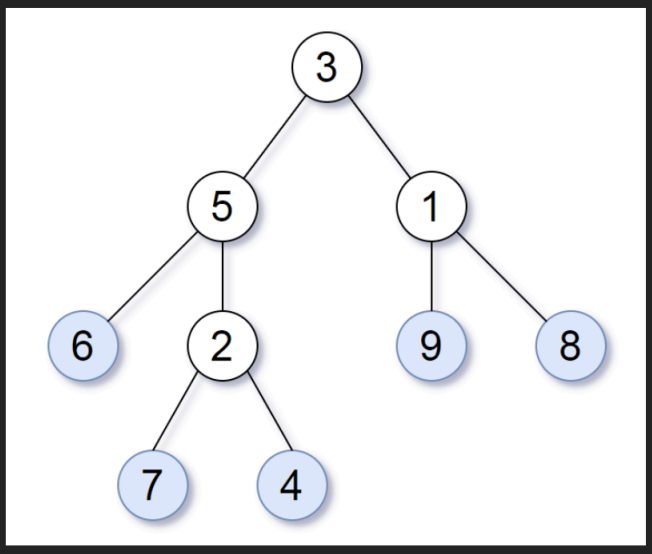
Consider all the leaves of a binary tree, from left to right order, the values of those leaves form a **leaf value sequence**.



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

```
/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *     public var val: Int
 *     public var left: TreeNode?
 *     public var right: TreeNode?
 *     public init() { self.val = 0; self.left = nil; self.right = nil; }
 *     public init(_ val: Int) { self.val = val; self.left = nil; self.right = nil; }
 *     public init(_ val: Int, _ left: TreeNode?, _ right: TreeNode?) {
 *         self.val = val
 *         self.left = left
 *         self.right = right
 *     }
 * }
 */
```

```
class Solution {
    func leafSimilar(_ root1: TreeNode?, _ root2: TreeNode?) ->
Bool {

        var leafsOfFirstArray : [Int] = [Int]()
        var leafsOfSecondtArray : [Int] = [Int]()
        getLeafNodes(root1, &leafsOfFirstArray)
        getLeafNodes(root2, &leafsOfSecondtArray)

        return leafsOfFirstArray == leafsOfSecondtArray
    }

    func getLeafNodes(_ root: TreeNode?, _ currans: inout [Int]) {
        guard let root = root else {
            return
        }

        getLeafNodes(root.left, &currans)
        if(root.left == nil && root.right == nil){
            currans.append(root.val)
        }
        getLeafNodes(root.right, &currans)
    }


}
```