

Problem 965: Univalued Binary Tree

Problem Information

Difficulty: Easy

Acceptance Rate: 72.59%

Paid Only: No

Tags: Tree, Depth-First Search, Breadth-First Search, Binary Tree

Problem Description

A binary tree is **uni-valued** if every node in the tree has the same value.

Given the `root` of a binary tree, return `true` if the given tree is **uni-valued**, or `false` otherwise.

Example 1:



Input: `root = [1,1,1,1,1,null,1]` **Output:** `true`

Example 2:



Input: `root = [2,2,2,5,2]` **Output:** `false`

Constraints:

* The number of nodes in the tree is in the range `[1, 100]`. * `0 <= Node.val < 100`

Code Snippets

C++:

```

/**
 * 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 isUnivalTree(TreeNode* root) {

    }
};

```

Java:

```

/**
 * Definition for a binary tree node.
 * public class TreeNode {
 *   int val;
 *   TreeNode left;
 *   TreeNode right;
 *   TreeNode() {}
 *   TreeNode(int val) { this.val = val; }
 *   TreeNode(int val, TreeNode left, TreeNode right) {
 *     this.val = val;
 *     this.left = left;
 *     this.right = right;
 *   }
 * }
 */
class Solution {
    public boolean isUnivalTree(TreeNode root) {

    }
}

```

Python3:

```
# Definition for a binary tree node.
# class TreeNode:
#     def __init__(self, val=0, left=None, right=None):
#         self.val = val
#         self.left = left
#         self.right = right
class Solution:
    def isUnivalTree(self, root: Optional[TreeNode]) -> bool:
```