

Problem 513: Find Bottom Left Tree Value

Problem Information

Difficulty: Medium

Acceptance Rate: 72.01%

Paid Only: No

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

Problem Description

Given the `root` of a binary tree, return the leftmost value in the last row of the tree.

Example 1:

A binary tree with root node 2. Node 2 has left child 1 and right child 3. Node 1 has no children. Node 3 has no children.

Input: root = [2,1,3] **Output:** 1

Example 2:

A binary tree with root node 1. Node 1 has left child 2 and right child 3. Node 2 has left child 4 and right child null. Node 3 has left child 5 and right child 6. Node 4 has no children. Node 5 has no children. Node 6 has no children. Node 7 is a leaf node under node 3.

Input: root = [1,2,3,4,null,5,6,null,null,7] **Output:** 7

Constraints:

* The number of nodes in the tree is in the range `[1, 104]`. * $-231 \leq \text{Node.val} \leq 231 - 1$

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:
int findBottomLeftValue(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 int findBottomLeftValue(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 findBottomLeftValue(self, root: Optional[TreeNode]) -> int:
```