

Description

Editorial

Solutions (4.5K)

Submissions

222. Count Complete Tree Nodes

Easy

8K

439

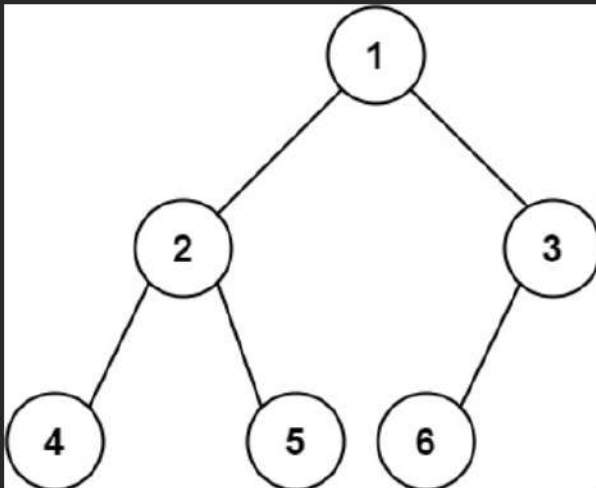


Companies

Given the `root` of a **complete** binary tree, return the number of the nodes in the tree.

According to [Wikipedia](#), every level, except possibly the last, is completely filled in a complete binary tree, and all nodes in the last level are as far left as possible. It can have between 1 and 2^h nodes inclusive at the last level h .

Design an algorithm that runs in less than $O(n)$ time complexity.

Example 1:**Input:** `root = [1,2,3,4,5,6]`**Output:** 6

Java

Auto

```
13 * }
14 * }
15 */
16 class Solution {
17     //counter variable
18     int count = 0;
19     public int countNodes(TreeNode root) {
20
21         if(root != null){
22             countNodes(root.left);
23             count++;
24             countNodes(root.right);
25         }
26
27         return count;
28     }
29 }
```

Ln 29, Col 2

Testcase

Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Case 3

Input

root =
[1,2,3,4,5,6]

Output

6

Console



Run

Submit

225. Implement Stack using Queues

Easy 5.4K 1.1K

Companies

Implement a last-in-first-out (LIFO) stack using only two queues. The implemented stack should support all the functions of a normal stack (push, top, pop, and empty).

Implement the `MyStack` class:

- `void push(int x)` Pushes element x to the top of the stack.
- `int pop()` Removes the element on the top of the stack and returns it.
- `int top()` Returns the element on the top of the stack.
- `boolean empty()` Returns `true` if the stack is empty, `false` otherwise.

Notes:

- You must use **only** standard operations of a queue, which means that only `push to back`, `peek/pop from front`, `size` and `is empty` operations are valid.
- Depending on your language, the queue may not be supported natively. You may simulate a queue using a list or deque (double-ended queue) as long as you use only a queue's standard operations.

Example 1:

Input

```
["MyStack", "push", "push", "top", "pop", "empty"]
[[], [1], [2], [], [], []]
```

Output

```
[null, null, null, 2, 2, false]
```

i Java | Auto

```
1 public class MyStack {
2     private Queue<Integer> q;
3
4     public MyStack() {
5         q = new LinkedList<>();
6     }
7
8     public void push(int x) {
9         q.add(x);
10        for (int i = 1; i < q.size(); i++) {
11            q.add(q.remove());
12        }
13    }
14
15    public int pop() {
16        return q.remove();
17    }
18 }
```

Ln 26, Col 2

Testcase Result

Accepted Runtime: 0 ms

Case 1

Input

```
["MyStack", "push", "push", "top", "pop", "empty"]
```

```
[[], [1], [2], [], [], []]
```

Output

```
[null, null, null, 2, 2, false]
```

Console



Run

Submit