

# 222. Count Complete Tree Nodes

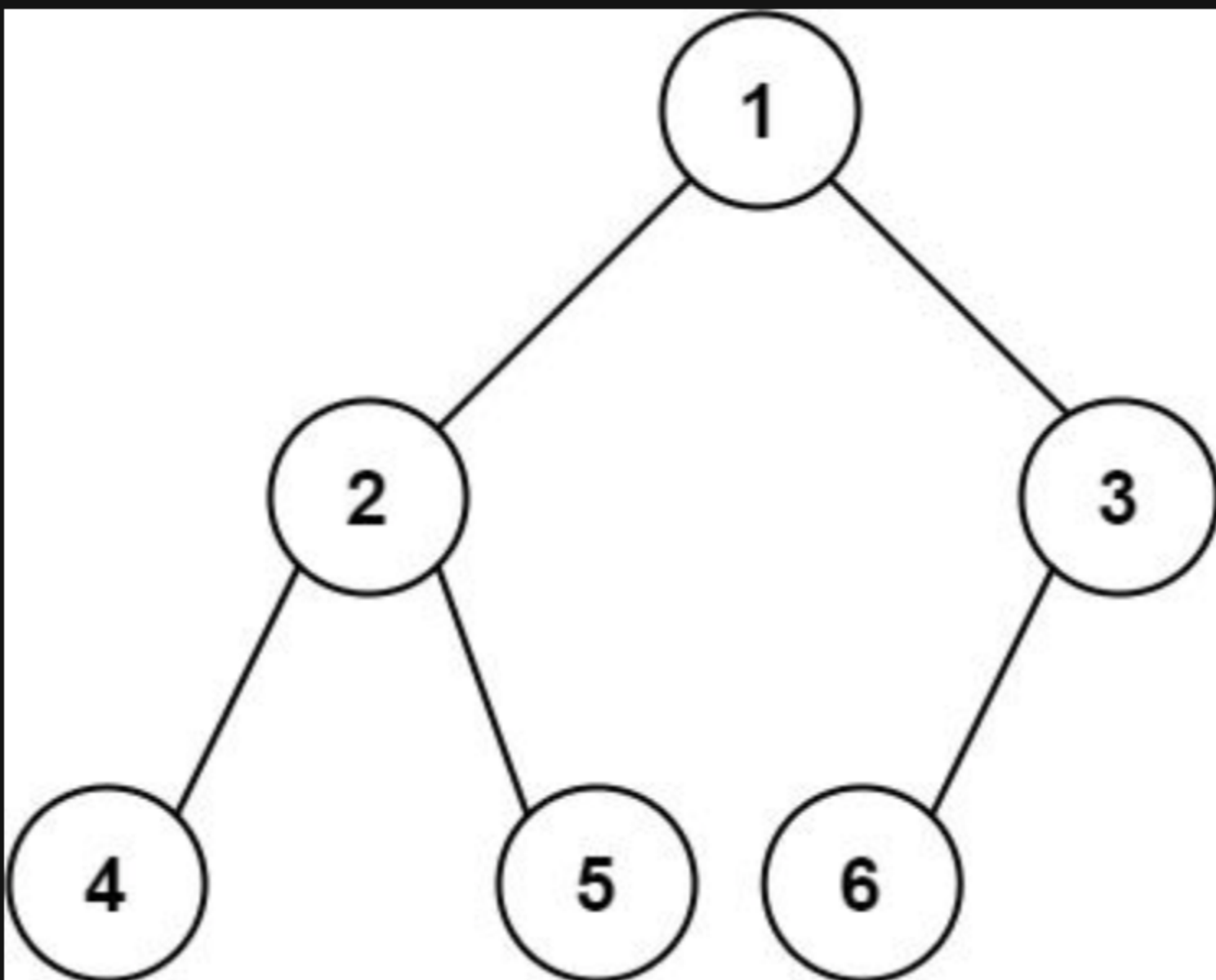
## Description

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 `2h` 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`

### Example 2:

**Input:** `root = []`  
**Output:** `0`

### Example 3:

**Input:** `root = [1]`  
**Output:** `1`

### Constraints:

- The number of nodes in the tree is in the range `[0, 5 * 104]` .
- `0 <= Node.val <= 5 * 104`
- The tree is guaranteed to be **complete** .

