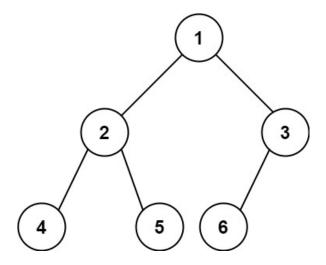
# **222. Count Complete Tree Nodes**

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  $[0, 5 * 10^4]$ .
- $0 \le \text{Node.val} \le 5 * 10^4$
- The tree is guaranteed to be complete.