

## Height of Binary Tree

**Medium** Accuracy: 65.76% Submissions: 100k+ Points: 4

Given a binary tree, find its height.

### Example 1:

Input:

```
  1
 /  \
2     3
```

Output: 2

### Example 2:

Input:

```
  2
   \
    1
   /
  3
```

Output: 3

### Your Task:

You don't need to read input or print anything. Your task is to complete the function **height()** which takes root node of the tree as input parameter and returns an integer denoting the height of the tree. If the tree is empty, return 0.

**Expected Time Complexity:**  $O(N)$

**Expected Auxiliary Space:**  $O(N)$

**Constraints:**

$1 \leq \text{Number of nodes} \leq 10^5$

$1 \leq \text{Data of a node} \leq 10^5$

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