



# Tree: Height of a Binary Tree ☆

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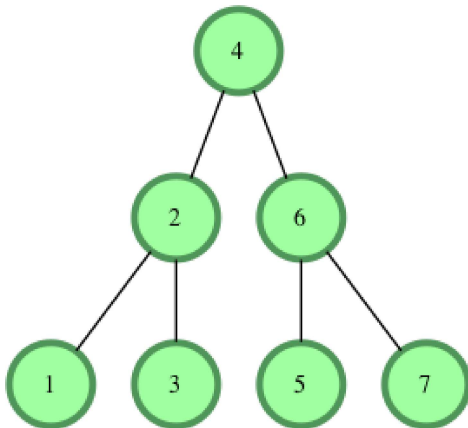
## Problem

## Submissions

## Leaderboard

## Editorial ⓘ

The height of a binary tree is the number of edges between the tree's root and its furthest leaf. For example, the following binary tree is of height **2**:



### Function Description

Complete the `getHeight` or `height` function in the editor. It must return the height of a binary tree as an integer.

`getHeight` or `height` has the following parameter(s):

- `root`: a reference to the root of a binary tree.

**Note** -The Height of binary tree with single node is taken as zero.

### Input Format

The first line contains an integer  $n$ , the number of nodes in the tree.

Next line contains  $n$  space separated integer where  $i$ th integer denotes `node[i].data`.

**Note:** Node values are inserted into a binary search tree before a reference to the tree's root node is passed to your function. In a binary search tree, all nodes on the left branch of a node are less than the node value. All values on the right branch are greater than the node value.

### Constraints

$$1 \leq \text{node.data}[i] \leq 20$$

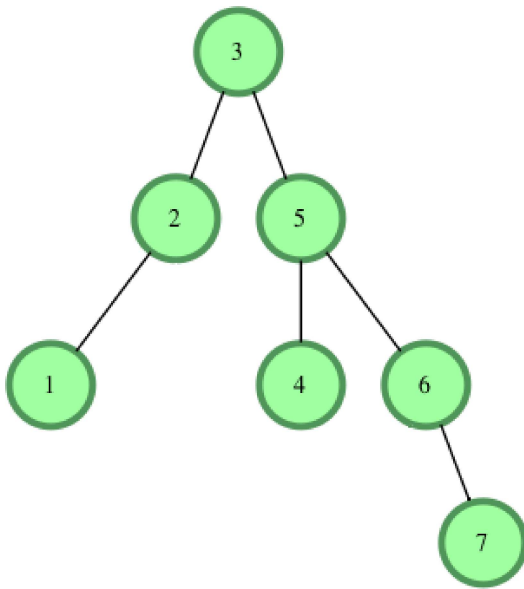
$$1 \leq n \leq 20$$

### Output Format

Your function should return a single integer denoting the height of the binary tree.

### Sample Input



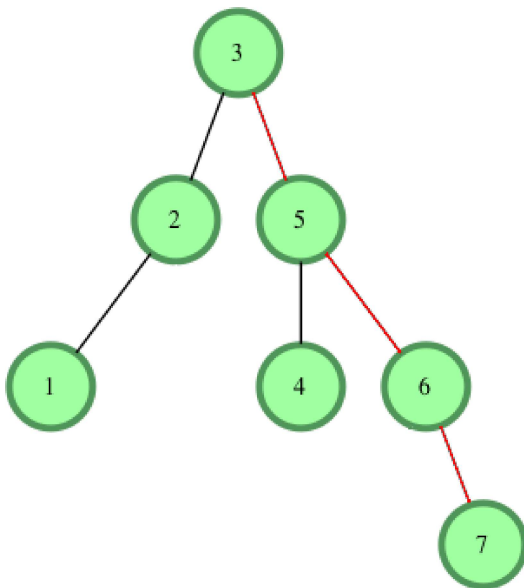


### Sample Output

3

### Explanation

The longest root-to-leaf path is shown below:



There are **4** nodes in this path that are connected by **3** edges, meaning our binary tree's *height* = **3**.