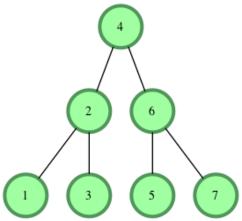
Tree: Height of a Binary Tree

https://www.hackerrank.com/challenges/tree-height-of-a-binary-tree/problem

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 - the number of nodes in the tree.

Next line contains space separated integer where the integer denotes < node. data[i].

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.

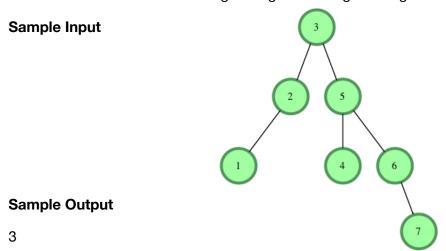
Constraints

$$1 \leq node.data[i] \leq 20$$

$$1 \le n \le 20$$

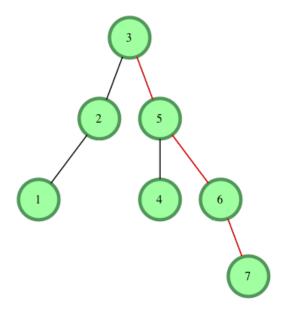
Output Format

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



Explanation

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



There are 4 nodes in this path that are connected by edges, meaning our binary tree's height = 3. github.com/andy489