

the *getHeight* function provided in your editor so that it returns the height of the binary search tree.

Input Format

The locked stub code in your editor reads the following inputs and assembles them into a binary search tree:

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

Each of the subsequent lines contains an integer, , denoting the value of an element that must be added to the BST.

Output Format

The locked stub code in your editor will print the integer returned by your *getHeight* function denoting the height of the BST.

Sample Input

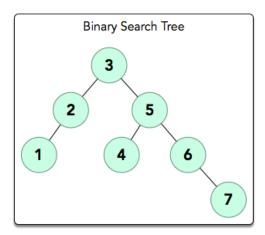
7			
3			
5			
2			
1			
4			
6			
7			

Sample Output

Explanation

3

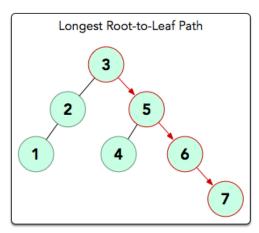
The input forms the following BST:



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



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There are nodes in this path that are connected by edges, meaning our BST's. Thus, we print as our answer.

```
Python 3
 Current Buffer (saved locally, editable) □ □
 1 class Node:
 def __init__(self,data):
           self.right=self.left=None
           self.data = data
 4
 5 class Solution:
 6      def insert(self,root,data):
 7
          if root==None:
 8
                return Node(data)
9
          else:
10
              if data<=root.data:</pre>
                    cur=self.insert(root.left,data)
11
12
                    root.left=cur
13
                else:
                    cur=self.insert(root.right,data)
14
                    root.right=cur
15
16
           return root
17
       def getHeight(self,root):
18
           #Write your code here
19
            if root == None:
20
                return 0
21
           elif root.left == None and root.right == None:
                return 0
22
23
           else:
24
                return 1 + max(self.getHeight(root.left), self.getHeight(root.right))
25 T=int(input())
26
   myTree=Solution()
   root=None
```

<pre>28 for i in range(T): 29 data=int(input()) 30 root=myTree.insert(root,dat 31 height=myTree.getHeight(root) 32 print(height)</pre>	a)					
		Line: 22 Col: 21				
☐ <u>Upload Code as File</u> ☐ Test against (custom input	Run Code				
Congrats, you solved this challenge! Challenge your friends:						
☐ Test Case #0	☐ Test Case #1	☐ Test Case #2				
You've earned 30.	.00 points. You are now 7 challenges a	Next Challenge away from the gold level for your 30 days of code badge.				

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