# Day 22: Binary <br> Search Trees 

## Objective

Today, we're working with Binary Search Trees (BSTs). Check out the Tutorial tab for learning materials and an instructional video!

## Task

The height of a binary search tree is the number of edges between the tree's root and its furthest leaf. You are given a pointer, root, pointing to the root of a binary search tree. Complete 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, $n$, denoting the number of nodes in the tree.
Each of the $n$ subsequent lines contains an integer, data, 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

3

## Explanation

The input forms the following BST:


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


There are 4 nodes in this path that are connected by 3 edges, meaning our BST's height $=3$. Thus, we print 3 as our answer.

