Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q31

Using a terminal, extract the initial files by running the shell script you just downloaded (you will need to navigate to the directory where you saved the file):

```
sh potd-q31.sh
```

Your files for this problem will be in the potd-q31 directory.

The Problem

Complete the isHeightBalanced function that accepts a BST TreeNode * root and returns True if the tree is height-balanced and False if the tree is not height-balanced. Here, the "height balance" of a tree is simply the height of its left-subtree minus the height of its right sub-tree. The "height balance" of an empty tree is 0.

A tree is height-balanced if the height of the two subtrees, i.e left and right subtree of every node in the tree never differ by more than 1.

HINT: It may be helpful to have a helper function for computing height.

Testing Your Code

In main.cpp, a simple test case has been created with the following binary search tree:

```
8
/ \ \
5     13
/\     / \ \
4     7     10     14
\     \
11
\     \
12
```

Upload Solution

Drop files here or click to upload.

Only the files listed below will be accepted—others will be ignored.

Files
O TreeNode.cpp not uploaded
O TreeNode.h not uploaded

POTD 31	
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Question		
Value:	1	
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