Total points: 0/1

Score: 0%

Question

Value: 1

History:

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Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q29

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-q29.sh
```

Your files for this problem will be in the `potd-q29` directory.

The Problem

Complete the `deleteNode` function that accepts a BST `TreeNode *` and a key, and returns the root node of the updated BST. Note that the correct implementation will print the increasing inorder list after removal. There are 3 types of removal you would need to take care of:

Example 1 (remove a leaf):

```
key = 14

     9
    / \
   5   12
  /\   / \
 2  7 10 14


After deleteNode(14):

     9
    / \
   5   12
  /\   /
 2  7 10
```

Example 2 (remove a node with 1 child):

```
key = 12

     9
    / \
   5   12
  /\   /
 2  7 10


After deleteNode(12):

     9
    / \
   5   10
  /\
 2  7
```

Example 3 (remove a node with 2 children):

For two child deletion use the inorder successor as the replacement.

```
key = 5
    9
   / \
  5   10
 /\
2  7

After deleteNode(5):

    9
   / \
  7   10
 /
2
```

Upload Solution

Drop files here or click to upload.

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

Files
○ TreeNode.cpp
not uploaded

Save & Grade   Save only