POTD29.1. BST Removal 2

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.

POTD 29

Total points:	0/1
Score:	0%

Question

Value:	1
History:	
Awarded points:	0/1

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Previous question

Next question

```
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]