POTD33.1. AVL Trees 3

Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q33

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-q33.sh
```

Your files for this problem will be in the potd-q33 directory.

The Problem

Complete the rightRotate and leftRotate functions that accepts a TreeNode * root and rotate it to generate a balanced tree using AVL rotations. Note that tree nodes structure also have parent pointers which you have to manipulate. Use the Wikipedia link given below for reference.

Wikipedia Link for Tree Rotations

Put your rightRotate and leftRotate functions in TreeNode.cpp.

The main.cpp file has some example inputs.

Example Input 1:

```
10

/\

8 13

/

5

/
```

Expected Output:

```
10
/ \
5 13
/ \
2 8
```

Example Input 2:

```
5
/\
2 8
\
10
\
13
```

Expected Output:

POTD 33

Total points: 0/1

Score: 0%

Question

Value: 1

History:

Awarded points: 0/1

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