Design document

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Csc 130

Since an avl tree is a binary tree that is simply balanced I took the previous code for the binary search tree that already had a working remove and passing inheritance method, and built on top of it. I originally tried to pass the inheritance and balance using my own code but ultimately to get a working project I decided to implement the professors rebalance methods.

This program will insert nodes, delete nodes, and show the inorder transversal of inputs the user provides.

Sample run_____

Input : 15, 5, 3, 12, 10, 6, 7, 13, 16, 20, 18, 23

```
The inorder Traversal of AVL Tree is:
  3
  5
  6
  7
  10
  12
  13
  15
  16
  18
  20
  23
```

Delete 23

```
The inorder Traversal of AVL Tree is:
3
5
6
7
10
12
15
16
18
20
23
```