Design document

Tanveer Bariana

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

§ÏThe inorder Traversal of AVL Tree is:  
ÏÏ§Ï3  
ÏÏ§Ï5  
ÏÏ§Ï6  
ÏÏ§Ï7  
ÏÏ§Ï10  
ÏÏ§Ï12  
ÏÏ§Ï13  
ÏÏ§Ï15  
ÏÏ§Ï16  
ÏÏ§Ï18  
ÏÏ§Ï20  
ÏÏ§Ï23  
ÏÏ§Ï

Delete 23

ÏÏ§ÏThe inorder Traversal of AVL Tree is:  
ÏÏ§Ï3  
ÏÏ§Ï5  
ÏÏ§Ï6  
ÏÏ§Ï7  
ÏÏ§Ï10  
ÏÏ§Ï12  
ÏÏ§Ï15  
ÏÏ§Ï16  
ÏÏ§Ï18  
ÏÏ§Ï20  
ÏÏ§Ï23