Lab 8: AVL Tree

Compile with GCC 5.2.1@Ubuntu Gnome – VM workstation

With C89 ‘Standard’

**8.**

Use structer Tree{ right, left, value }

Functions

init(return Tree)

treeHeight(get Tree and return height of Tree)

singleRotateLeft(rotate Tree, left)

singleRotateRight(rotate Tree, right)

doubleRotateLeft(single rotate twice)

doubleRotateRight(single rotate twice)

find(get Tree and value, find value in Tree)

insert(get Tree and value, insert value to Tree)

deleteTree(get Tree and free all trees.)

deleteValue(get Tree and value, find value in tree and delete)

print inorder after end of input

avl tree

if height(left or right) < height(right or left) + 2 then valancing.