## Overview

Everything in my project should work.

I'm pretty sure I learned more in this assignment than I did in 274.

Expression()

Does as it's supposed to. Creates the expression (0).

Expression(string str)

Does as it's supposed to. Creates a binary tree using str.

Expression(const Expression &other)

Works. Deep copes binary tree from other.

~Expression()

Works. Destructor is called on every node in binary tree.

Expression & operator = (const Expression & other)

Assignment operator works as it's supposed to.

double evaluate(double x) const

Correctly evaluates the value of tree given value for variable x.

static Expression randomExpression(int height)

Creates a balanced random tree. The instructions said to make a "full expression tree" so I took that as meaning balanced.

string toString() const

Successfully converts tree to string form. It can be used in the constructor of another expression.

void mutate()

Randomly mutates a given node in the tree. However, the chance is not evenly distributed for each node.

int getHeight() const

Does as it's supposed to. Returns the height of the tree.