

Programming II

Quest 3

Rational Fractions

This assignment is mostly concerned with writing classes and building programs through classes. The topic is rational fraction mathematics. We are going to build a program that reads a CSV file and computes the operations listed.

Required Members

- Class for the Rational Fraction.
 - A method for reducing the fraction
 - Overload all arithmetic operators (+, -, *, /)
 - Overload all boolean operators (==, !=, <, >, <=, >=)
- Class for CSV Reading
 - A constructor that takes a string to a csv file and opens the csv file.
 - A destructor that closes the csv file.
 - A copy constructor and copy assignment.
 - A move constructor and move assignment.

The program should open the csv file, compute each row, and print the result. Make sure the result is fully reduced!

A row in the file looks like numerator, denominator, operation, numerator, denominator
where the first pair of numerator and denominator represents the fraction on the left side.
the second pair of numerator and denominator represents the fraction on the right side.