Points: 100 points

Assignment 6

Submit 3 files with your name and assignment number to Canvas

Take the rational number class that you developed in assignment 5. Use the tools learnt in lectures 18 and 19 to enhance your work and make is accessible to everyone.

Generate 3 files from this (Header, Implementation and Application file) to allow for separate compilation. Name your header file rationals.h

In addition, add the necessary preprocessors using # that would not allow duplicates of your class definition.

Generate proper namespaces for your files. The class itself should be encapsulated in a namespace that begins with your name. The implementation functions which are stand alone should not be seen by the user and should be placed in an unnamed namespace.

In the application file, test the rational numbers class by the directive using namespace.

This is the right time for you to fix all the shortcomings of your rational number class. As an example, does your rational number class detect division by zeros?

For fun, you can now use your friend's rational number class by using the #include directive.