Homework 4
Object-Oriented Design
Due Wednesday March. 26 at 23:59 pm

Instruction: Please use either Visual C++ or g++ compiler. Please hand it in through Canvas. If necessary, please include a short readme.txt file. For Visual C++, please zip the whole directory of the project (exclude the Debug directory) and submit the zip file.

Zero point if your code cannot be compiled

Zero point if you hand it in late

Hint1: You can download the source code examples from the textbooks webpage that is on the syllabus.

Hint2: google is a friend. If you search how to use C++ functions, compiling errors, and even tutorials.

Five questions total. All the questions are in the required textbook:

10.8 (50 pts) (Complex Class)
* The file name contains the main function should be "pro1.cc" or "pro1.cpp." The class *Complex* should have Complex.h as its header and Complex.cpp as its implement. The pro1.cpp is provided. (The test program in Fig. 10.16 is not sufficient.)

10.10 (50 pts) (Rational Number Class)
* The file name contains the main function should be "pro2.cc" or "pro2.cpp." The class *RationalNumber* should have RationalNumber.h as its header and RationalNumber.cpp as its implement. The pro2.cpp is provided.

10.11 (**Extra** 10 pts) (Polynomial Class)
* The file name contains the main function should be "pro3.cc" or "pro3.cpp." The class *Polynomial* should have Polynomial.h as its header and Polynomial.cpp as its implement. The pro3.cpp is provided.