

## Homework 2

**Due: Feb 12, 23:59pm**

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:

6.52 (10 pts) (Function Template minimum) Write a program that uses a function template called minimum to determine the smaller of two arguments. Test the program using integer, character and floating-point number arguments.

\* The file name should be "pro1.cc" or "pro1.cpp"

6.54 (10 pts) (Find the Error) Determine whether the following program segments contain errors. For each error, explain how it can be corrected. The program segments are in the textbook.

\* Write your answer in a text file.

7.14 (20 pts) Implement Exercise 7.13 using a vector. Begin with an empty vector and use its push\_back function to add each unique value to the vector.

\* The file name should be "pro3.cc" or "pro3.cpp"

9.7 (20 pts) Enhancing Class Time.

\* The file name contains the main function should be "pro4.cc" or "pro4.cpp." The class Time should have Time.h as its header and Time.cpp as its implement. The pro4.cpp is provided.

#### 9.8 (20 pts) Enhancing Class Date

\* The file name contains the main function should be "pro5.cc" or "pro5.cpp." The class Time should have Date.h as its header and Date.cpp as its implement. The pro5.cpp is provided.

#### 9.11 (20 pts) Create a Rectangle Class.

\* The file name contains the main function should be "pro6.cc" or "pro6.cpp." The class Time should have Rectangle.h as its header and Rectangle.cpp as its implement. The pro6.cpp is provided.

#### 9.15 (Extra 10 pts) Create a class TicTacToe.

\* The file name contains the main function should be "pro7.cc" or "pro7.cpp." The class Time should have TicTacToe.h as its header and TicTacToe.cpp as its implement. The pro7.cpp is provided.