

Department of Computer Science and Engineering
University of Notre Dame

CSE 232 - Advanced Programming
Fall 2004

Assignment 7

Reading:

Read chapter 6 of the textbook. Review all class notes.

As usual, make sure you read the summary at the end of each chapter, and do the self-review exercises.

Problem 1:

Redo problem 1 of hw2, but allow your main program to accept the two numbers from the command line. All values must now be `double`. The program must respond properly according to the number of arguments that were provided. Refer to the class discussion.

Problem 2:

Do exercise 6.6 page 465 of the textbook.

Add a couple of extra public functions: one to perform the multiplication of two complex numbers, and one to find the magnitude of a complex number. The four public functions are named: `add`, `subtract`, `multiply`, `magnitude`, and `print`.

You have been given the class interface (`complex.h`) and a main file (`hw7_2.cpp`) to test the class. Your job is to write the implementation file (`complex.cpp`). You must therefore write the above methods, as well as the constructors and the regular get and set functions.

A Makefile has been provided.

Due date:

Friday 10 / 29 / 04, at 5 pm.

Make sure all your files contain your name in the comment section. You must place the source codes in your personal dropbox, under the `hw7` directory. Do not submit any executables. Follow the homework guidelines posted on the web. Make sure you use the `g++` compiler.

The naming convention from now on will remain the same for the main files, but class interface and class implementation files will now be named after the classes.