

Department of Computer Science and Engineering
University of Notre Dame

CSE 232 - Advanced Programming
Fall 2004

Assignment 9

Reading:

Chapters you should be familiar with for the final exam:

Chapters 6, 7, 8: classes

Chapter 9: inheritance

Chapter 12: stream I/O

Chapter 14: file I/O (14.1 - 14.6)

Chapter 15: string class

Problem 1:

Create an abstraction for a 3 digit number (call the class `Number`) using the `Digit` class provided under the `<classdir>/www/hw9/` directory (also available on the web page). You have been given `Digit`'s interface and implementation, as well as a couple of main files (one tests the class, the other generates a timer). Your class should have all the necessary and useful member functions that would allow a user to treat the number as if it were a regular 3-digit integer number. Note that you must understand how the `Digit` class works before you attempt to create an ADT for the `Number` class.

Name your files `number.h` and `number.cpp`.

Your class should be compatible with the `hw9_1.cpp` main file that is provided.

Refer to the class discussion for more details.

Due date:

Thursday 12 / 02 / 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 `hw9` directory. Use the provided makefile, and submit it as well. Do not submit any executables, nor object files. Follow the homework guidelines posted on the web. Use the `g++` compiler.