**Homework #4**

**Due Wednesday, September 30**

Note: The first test is currently scheduled for October 7 and will cover the first five weeks of lecture and related homework. Please turn in, with this homework, a 15-question AccuScan form and an 8.5” by 11” Examination Book. Write your *name* on the *back* side of the form and the book. Write *nothing* else *anywhere* on the form.

A student’s grade depends on three tests, which are scored in the range 0 to 100.

1. The grade is “Pass” if the student scores in every test are at least 50.
2. The grade is “Pass By Compensation” if the condition above is not met but *two* of the test scores are at least 50, the lowest is at least 40, *and* the average of all three is at least 50.
3. The grade is “Fail” if the neither of the cases above are satisfied.

Write a program which inputs the three test scores and outputs either “Pass”, “Pass By Compensation”, or “Fail”. If any of the input is inappropriate, your program should print an appropriate error message before terminating.

The program **Gold04.exe** on my Web site demonstrates what your program should do.

You should turn in (in a pocket folder): this assignment/grading sheet (write your name in the space below), your statement of completeness, a structure chart corresponding to outline comments in your code, and a full printout of your program. All documents should be appropriately labeled. You should also place a folder named “Homework 04” containing your Main.cpp file into the private folder of your FTP site.

**Grading Sheet, Homework #4**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Criteria Possible Achieved**

Test Materials 3 \_\_\_\_\_\_\_\_

Statement of Completeness 5 \_\_\_\_\_\_\_\_

Structure Chart 5 \_\_\_\_\_\_\_\_

Clear Indentation and Spacing 5 \_\_\_\_\_\_\_\_

Internal Code Comments 5 \_\_\_\_\_\_\_\_

Appropriate Use of Variables 5 \_\_\_\_\_\_\_\_

Appropriate Use of Statements & Expressions 5 \_\_\_\_\_\_\_\_

Complete/No Errors 5 \_\_\_\_\_\_\_\_

Output Format and Correctness 5 \_\_\_\_\_\_\_\_

Presentation 3 \_\_\_\_\_\_\_\_

Total: 46 \_\_\_\_\_\_\_\_

Notes: