**Homework #11**

**Due Wednesday, May 23**

Note: The third test is currently scheduled for May 30 and will cover the final five weeks of lecture and related homework (Chapters 6–8). 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.

Write a function that receives single string parameter and returns a vector of strings. The contents of the vector should be the individual words in the parameter. The definition of “word” is whitespace-delimited, as used by input streams when strings are read with the >> operator.

This function will need to look through the individual characters in the string/line, keeping track of when there are spaces and non-spaces, in order to identify and extract words.

Your program should input lines from the keyboard and use the function above to get a vector of words, which should then be outputted.

The executable program **Gold11.exe** provides demonstration of what your program should do.

Your program should be designed and implemented using top-down programming techniques: use functions for sub-tasks. The functions should be divided among three files: one for main, one for the tools, and one for the program-specific functions. You should turn in a structure chart that shows the structure of the program-specific functions in your program.

You should turn in (in a pocket folder): this assignment/grading sheet, a statement of completeness (see the back of this sheet), a structure chart, and printouts of your program-specific functions and any tools that you may invent. All items should be labeled appropriately. You should also place a “soft” (electronic) copy of a folder containing *all* of your project’s code and header files (.cpp and .h) into your private FTP folder.

**Grading Sheet, Homework #11**

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

**Criteria Possible Achieved**

Test Materials 3

Statement of Completeness 5

Structure Chart 5

Clear Indentation and Spacing 5

Comments 5

Clear Identifiers 5

Appropriate Use of Statements & Expressions 5

Appropriate Use of Functions 10

Complete/No Errors 5

Output Format and Correctness 5

Presentation 3

Total: 56

Notes: