CSC 260 Fall 2012

Rubric for Assignment 2 (Introduction to C++) Due September 25, 2012.

Student Name: _____ **Grade:** _____**/50**

	Levels of Achievement			
Criteria	**Exceeds Expectations (4)**	**Meets Expectations (3)**	**Below Expectations (<=2)**	**Score**
Compiling and Execution	The program compiles without errors or warnings. There are no execution (run-time) errors.		The program does not compile without errors; or many execution errors are encountered.	
Note: Assignment is **Incomplete** if the program is not implemented in C++ or does not compile without errors. It must be re-submitted after fixing errors.				
Problem Solution	Implements correct, elegant and efficient algorithms.	Implements working but occasionally inelegant algorithms.	Algorithms do not meet specifications.	
Functionality	All functionality has been implemented correctly as per specs. No user input/output in functions except where required.	Most functionality has been implemented correctly as per specs. Some inappropriate user input/output in functions.	Significant functionality is missing. User input/output in most functions.	
Implementation and Use of Arrays	Arrays are declared correctly and with local scope. They are manipulated appropriately within well-designed functions and passed as parameters correctly.	Arrays are declared correctly and with local scope. Occasionally the arrays are manipulated incorrectly or not within the appropriate functions, or not passed correctly as parameters.	Arrays are not used, or declared incorrectly or with global scope. Arrays are manipulated incorrectly or not within the appropriate functions, or not passed correctly as parameters.	
Input / output	There is no user i/o in functions except where required. File i/o is implemented correctly with flexible file names. There is appropriate error handling of user i/o. Output is formatted and displayed neatly.	There is some inappropriate user i/o in functions. File i/o is implemented correctly for most part with flexible file names. There is appropriate error handling of user i/o. Output is mostly formatted and displayed neatly.	There is significant user i/o in functions. File i/o is implemented incorrectly or with hardcoded file names. There is no error handling of user i/o. Output is not formatted and displayed neatly.	
Encapsulation and Information Hiding	Implements excellent encapsulation and information hiding. Elegantly implements parameter passing with the appropriate level of modularity. There are no global variables.	There is some violation of encapsulation or information hiding. Implements parameter passing with the appropriate level of modularity. There are no global variables.	Does not satisfy encapsulation or information hiding. Does not implement modularity and parameter passing appropriately. There are global variables.	
C++ constructs	Elegantly implements C++ constructs resulting in an efficient program.	Implements C++ constructs well resulting in a working program.	Does not implement C++ constructs appropriately.	
Error-handling	There is extensive graceful error handling within functions.	Error handling is distributed between functions and driver. Some important cases not addressed.	There is no error handling within functions.	

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Programming Practices	Code is well formatted and indented. There is a good and consistent naming convention, and placement of braces and tab spacing.	Code is mostly formatted and indented. There is a mostly good and consistent naming convention, with some inconsistent placement of braces and tab spacing.	Code has any of: bad formatting and indenting; unintuitive identifier naming; inconsistent placement of braces and tab spacing.	
Documentation	There is detailed identification information, and clear, detailed comments as appropriate.	There is minimal identification information, and brief comments as appropriate.	There is no identification information, or comments are missing or inappropriate.	
Driver	There is provision for excellent user interaction, and testing of all functionality.	There is provision for some user interaction and testing of most functionality.	There is no provision for user interaction, or does not enable testing of all functionality.	
Testing	All functionality and error handling capabilities are extensively demonstrated.	Most functionality and error handling capabilities are demonstrated.	Minimal or no functionality and error handling capabilities are demonstrated.	
Deliverables (2)		(2) Complete and submitted as per specifications.	(<=1) Parts are missing or not submitted as per specifications.	
Timeliness	5 points penalty for each day late.			

Comments: