

Project 6 Generic Grading Guidelines
CGS 3406

Total possible points: 100

Due Time: As Announced in Project Write-Up

NO EXTENSIONS AND NO LATE PROGRAMS WILL BE ACCEPTED

Note: these are generic grading guidelines, intended to give you an idea of how the project will be graded and what kinds of things the grader will be looking at. These guidelines are tentative and are subject to change. You will be provided with specific guidelines when you get your graded project back. Before you turn in your program, be sure to read the style guidelines handout on the course web site and utilize all information you have been given in lecture, recitation, on the web site and via email.

Working program/Correct Results: worth 50% of total points

- syntax errors - does not compile (up to -50)
- syntax warnings
- compiles but will not run (link errors etc.)
- unreachable code (e.g. if/then always false)
- errors in expressions, calculations and equations
- missing evaluations for special cases
- passing parameters using call by value when they should be passed using call by reference
- not reading input data correctly
- run with wrong data set(s) or file, if required
- did not echoprint input, if required
- missing output which was required
- runtime error (program crashes)

Documentation/Style : worth 25% of total points

Use the Programming Style Guidelines for C++ handout as the guide for requirements of style, formatting, documentation, etc.

- main program header comment not sufficient
- header comments - each function
 - must include a (not too) brief description of what the function does, its input/output, parameters, etc.
- lack of comments explaining code
- lack of comments describing variables, constants, etc.
 - ALL variables/constants declared *EVERYWHERE* must be commented
- lack of comments on { } pairs (each, where needed)
- inaccurate or meaningless comments
- bad program format aesthetics (indentation, capitalization, insufficient white space in code around sections, operators etc.)
- bad output format aesthetics (e.g. not enough white space, meaningless output messages, unlabeled output)
- bad output variable formats (e.g. unformatted numbers)
- poor formatting of output in tables
- meaningless or overly-abbreviated identifiers
- did not declare appropriate named constants (using const)

Efficiency / program structure: worth 25% of total points

- unnecessary code (each) (e.g. repeating nearly identical code)
- unnecessary conditions on if
- unnecessary { } s (each)

exception: certain situations where the structure of a control structure is clarified by using an extra { } using repeated if/then (instead of if/then/else or switch) code inside an if (or switch) that belongs outside violating one-entrance one-exit rule when not justified, example, while(1) loops use of break, continue, or return when not justified use of goto code inside a loop that belongs outside the loop

passing parameters using call by reference when they should be passed using call by value passing parameters by reference when they should be by const reference using any global variables using only one function, main poor breakdown of tasks among main and other functions (general lack of good structure and clear flow and/or lack of functional cohesion - each function should perform one task or several very closely related tasks)

not using the specific data structure(s) required by the write-up, if any not setting up classes and class members as specified in write-up not using the specific algorithms(s) required by the write-up, if any

Miscellaneous Notes:

- when output is incorrect, points are taken off for the cause of the errors (e.g. errors in expressions, equations, missing equations, etc.)
- don't deduct more points than an area is worth (e.g. don't deduct more than 35% of possible points for documentation etc.)
- points will be taken off for the use of C constructs which are not compatible with the focus of this course, which is for students to learn the conventional use of the standard C++ language (not to learn C). For example, points will be deducted for using scanf or printf instead of cin and cout, for using pointer parameters instead of reference parameters, and for using #define instead of the const qualifier to declare named constants. Students must use only standard ANSI C++ header files which are discussed in the course textbook or in class as being part of ANSI standard C++. Standard C++ header files do include C++ headers derived from C such as cmath, but they do not include old C headers such as math.h. These headers are also not standard and cannot be used: stdafx.h and conio.h.

Automatic zeroes:

- not turned in by due deadline
- the following situations, if an attempt at "cheating" appears to have occurred
 - two or more programs which are substantially identical
 - if output is turned in, it could not have come from the program turned in

Late penalties:

This assignment must be turned in by the deadline due time or it will receive a ZERO grade. That is, no late programs will be accepted, and no extensions will be given. THIS IS NOT THE SAME POLICY AS FOR PREVIOUS COURSE PROJECTS !!!

Missing/Other Item Penalties:

- not submitted electronically and correctly to Blackboard site
- required file missing (this results in a zero score)
- more than one file submitted
- required file not named correctly as specified in write-up
- note: file turned in must compile and run correctly using Microsoft Visual C++ 6.0 Express 2008 compiler

CORRECT RESULTS: see sample solution

REGARDING FSU COMPUTER COMPETENCY REQUIREMENT

This assignment is assessed according to the FSU Computer Competency Requirement. As such students must demonstrate (1) competent use of a discipline-specific software package: Microsoft Visual Studio C++ and (2) the ability to perform simple transactions using the web/Internet: obtaining all of the assignment materials from the class web site and downloading the required file(s), and turning in the completed work correctly to the class web site.
