

ENSF 592 Spring 2021

Assignment 2 Grading

Assignment 2 Rubric (20 marks, 10% of overall grade)

Your code must successfully compile to be graded. Code that does not compile will be given a grade of zero. For compiled code, partial marks may be given for each criterion listed below.

Commenting and Syntax (5 marks):

- (1) Your name must be included in the file header
- (2) Comments must be included throughout the code to explain the functionality
 - All function calls are clearly explained (what information is being passed into the function, what information is being returned by the function)
- (1) All variable and functions have clear and useful names that use lowercase words separated by an underscore
- (1) Code is clearly indented and spaces are included between variables and operators
- One mark will be deducted for each error or missing component, up to a maximum of 5 marks

Code Structure and Semantics (5 marks):

- (2) Solution contains at least four different user-defined functions
- (1) Solution contains at least two types of control flow statements (if/else, for, while, etc.)
- (1) At least one simple type is used
- (1) At least one compound type is used
- One mark will be deducted for each error or missing component, up to a maximum of 5 marks

User Interface and Functionality (5 marks):

- (1) User is given clear guidance on how to enter in the input values
- (1) Program accepts three integer values and two operators
- (1) If an invalid value is provided as an operator, the user is prompted to re-enter without terminating the program
- (1) Program includes logic for determining the correct order of operations
- (1) The program output is formatted to include the original input expression and the calculated answer (e.g. Your calculated result: $1 - 2 * 5 = -9$)
- One mark will be deducted for each error or missing component, up to a maximum of 5 marks

Execution (5 marks):

- (3) Your program will be executed three times with varied integer/operator values to test if the output is calculated correctly
 - All students will have their code tested with the same input values (e.g. $1 - 2 * 5$)
- (2) Screenshot of successful execution is shown
 - Your screenshot should include all successful functionality (i.e. include input that shows your handling of an incorrect operator input and handling of order of operations)
- One mark will be deducted for each error or missing component, up to a maximum of 5 marks