

CS 332/532 – 1G- Systems Programming

HW 1

Deadline: 09/04/2022 Sunday 11:59pm

Objectives

Practice C Programming

Grading

- Submit the **blazerid_HW01.c** file to the Canvas.
- Each question is 20 points. A problem is correct if all our tests pass, otherwise it will be considered as False.
- The deadline is 09/04/2022 Sunday, 11.59 pm (no late submission will be accepted)
- You can create the necessary functions to calculate the given problems
- This is **not** a group project, violation of the Academic Integrity Code will result in a failure grade.
- Your code needs to be compiled on Vulcan server, or you need to demo your code to TA
- ***** Do not forget to include “independent completion form” *****

File Operations

Develop the C program to perform the following operations;

- Read the **students_database.csv** file and develop the necessary functions to find an answer to the following questions. Your functions must work on all files that have the same features (same column names), thus you should not hard code your solutions.
- 1) How many different degrees do we have? Display their names.
 - 2) What is the full name of the 3 students who have the highest GPA? If we have multiple, print them all.
 - 3) What are the average credit hours of the college?
 - 4) What is the average GPA of the students whose department is Computer Science?
 - 5) Display the list of departments along with the total number of advisors.

For ex:

Computer Science: 7

Biology: 9

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