Opened: Thursday, October 3, 2024, 12:00 AM
Due: Wednesday, October 9, 2024, 11:59 PM

CSCI 356: Programming Assignment 2
Introduction to C

Program Specification

Implement the functions prototyped in my_queue.h in a file named my_queue.c. Write a program (credit_rating.c) that uses your queue to read individual records (this is where your main function will be). In addition, you will have a header file for your credit_rating.c where you will place a struct that represents a person's credit rating (name and creditRating) along with any protoypes for functions you create/use in your implementation file in a header file named, credit_rating.h. You are encouraged to create additional functions (think divide and conquer). Your program is expected to take user input from standard in and stops when a blank line is entered. While the user is entering credit rating data, you should determine the max value. After the user has finished getting user input, your program should then calculate and output in order each person's name, rating and distance from the max, and finally display the average (the average should be calculated in the phase where the records are being 'dequeued' from the queue NOT while data is being input (I will look at your code). For example,

```
> credit rating
John  700
Terry 800
Sally 500
Jane  600



Name   Rating    Distance
John:   500        300
Terry:   800        0
Sally:    700         100
Jane:    600        200

average:              650
```

Please note that you should provide feedback to the user to let them know what is happening.

No global variables or circular queues are allowed

Files you are required to upload:

- my_queue.h
- my_queue.c
- credit_rating.h
- credit_rating.c

Please provide a zip file containing the above files (proghw02.zip?)

All files submitted MUST have an author block with information about the contents of the file, as well as information about the author (name, date, course, assignment, etc...)

As always, the source code must be indented properly and contain comments that describe important parts of the algorithm. The use of proper indentation is considered good programming style, and you are expected to use good programming style.

my_queue.h August 17 2024, 11:28 PM

Add submission

Submission status

Submission status	No submissions have been made yet
Grading status	Not graded
Time remaining	2 days 15 hours remaining