Name:

Please remember you must follow instructions exactly in this course. Failure to follow these instructions will result in a failing grade on this quiz.

Write a C program that reads a binary file containing the following data:

1. the first two values are floats
2. the next value is an unsigned char
3. the next value is a double precision float
4. the next N values are short integers where N is unknown (the file can be any size)

Use this file:

/data/courses/ece\_1111/current/quizzes/qu\_08/quiz\_08.dat

as a test file. If you read it correctly, the sum of the numbers that you read should be zero. Print out the sum of the numbers you read using this format:

the sum of the values in <filename> is <value>

For example, if you process the attached test file correctly, the sum will be zero:

nedc\_000\_[1]: myprog.exe /data/courses/ece\_1111/current/quizzes/qu\_08/quiz\_08.dat

the sum of the values in /data/courses/ece\_1111/current/quizzes/qu\_08/quiz\_08.dat is 0

Your program should take the filename from argv[1] and should work for any size file (the N short integers can be any size). For the sake of expediency, you can assume N will never be larger than 99, so declare a short integer array of size 100. This will make writing this program a little easier.

Develop your solution in the directory:

/data/courses/ece\_1111/current/quizzes/qu\_08/lastname\_firstname/

Remember to comment your code and to use make files.