CS16, 10S, **H08**, due **Wed Lecture 04.14**—Command line arguments (handout)—Total Points: 50

Available online as http://www.cs.ucsb.edu/~pconrad/cs16/10S/homework/H08—printable PDF

Name: (4 pts)		Umail Address: (4 pts)		@umail.ucsb.edu

Lab Section (2 pts)—circle one: 9am   10am   11am   noon   unknown

(Note: For now, circle the lab section you are registered for on GOLD. If you need to request attendance at a different lab section because of an ACTUAL SCHEDULE CONFLICT, please email pconrad@cs.ucsb.edu with details)

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This assignment is due **IN Lecture on Wednesday, 04.14.**
It may ONLY be submitted Lecture, in Chem 1171 at 1pm on Wednesday.
You must come IN PERSON to turn it in during your assigned Lecture section.

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Late Policy: No email submission allowed—and don't "slip it under my door". If you need to make it up, you must do so during office hours, or make an appointment to see me, and you must request this appointment within 48 hours of when the assignment was originally due.

Personal Day/Sick Day policy: Everyone is permitted one "personal day/sick day" when you get to make up a missed homework assignment for free during office hours or via appointment. After that, you may not make up the homework assignment—you can only earn back the points through extra credit opportunities.

(For more details, see the syllabus and the homework policy)

For this homework, the preparation is the material presented in lecture last week (04/05 through 04/09, and on 04/12) and the summary of that material on the following handout http://www.cs.ucsb.edu/~pconrad/cs16/10S/homework/H08/handout

Once you've read that handout, write answers to the questions on this sheet (use the PDF link to print a copy of this if you weren't in class).

1. Suppose you are running a main C program with the following first line:
   int main(int argc, char *argv[])

   and that the command line typed to run this program is: ./foo bar fum fiddle

   a. (3 pts) What is the value of argc?

   b. (3 pts) What is the value of argv[0]?

   c. (3 pts) What is the value of argv[1]?

   d. (3 pts) What is the value of argv[2][2]?

   Please turn over for questions to answer

2. Suppose you are running a main C program with the following first line:
   int main(int argc, char *argv[])

   and that the command line typed to run this program is: ./foo 12 4.5

   a. (4 pts) What is the value of argc?

   b. (4 pts) What is the value of argv[0]?

   c. (4 pts) What is the value of argv[1]?

   d. (4 pts) What is the value of argv[2]?

   e. There is a function you can use to convert the 12 from the form it has when it is a command line argument into a form that can be stored in an **int** variable.

      - (3 pts) What's the name of that function?

      - (3 pts) What header file do you need to #include to use that function?

   f. There is a function you can use to convert the 4.5 from the form it has when it is a command line argument into a form that can be stored in an **double** variable.

      - (3 pts) What's the name of that function?

      - (3 pts) What header file do you need to #include to use that function?

End of H08