CS16, 10W, H03 (Prep for lab02) Total Points: 50 (printable PDF)

Available online at: http://www.cs.ucsb.edu/~pconrad/cs16/10W/homework/H03

Accepted: **on paper, in LAB (at 3pm, 4pm, or 5pm on Thursday, Jan 14th**)

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)

Name: (4 pts)_____ UMail address (4 pts) _____@umail.ucsb.edu

Lab Section (2 pts) Circle one: 3pm   4pm   5pm   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)

This assignment is due **IN LAB on Thursday.**
It may ONLY be turned in in Lab on Thursday.
You must come IN PERSON to turn it in during your assigned lab section.

For this assignment, the reading is a handout that was distributed in lecture, and is also available online at this link:
http://www.cs.ucsb.edu/~pconrad/cs16/10W/homework/H03/handout

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

1. (10 pts) Write a C function definition for a function called areaOfTriangle that returns the area of a triangle as a real number. The function should take two parameters that are both real numbers, namely base and height. The formula for area of a triangle is 1/2 base times height.

Please turn over for questions to answer

2. (10 pts) Write a C function called howManyEggs that return an integer. The function should take a integer parameter called dozens, and return the value of that parameter, multiplied by 12.

3. (10 pts) Write a C function that takes the radius of a circle as a parameter (a real number) and returns the area of that circle. Use the value 3.14159 for pi.

   (Note: in a real program we'd probably want to use 3.14159265358979323846 2643—that's more like the accuracy that a double value can hold, but that's too much to expect you to write out for a homework assignment.)

4. (10 pts) Write a C function that takes a value in inches and returns the corresponding value in centimeters. You choose an appropriate name, and a name for the parameter. The conversion factor is 1in = 2.54 cm.

End of H03