| First name (color-in initial) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | section (9,10,11, 12,1 or 2) | first name initial | last name initial |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Last name (color-in initial) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | | | |

# H00: Due Wednesday, 01.07 in Lecture

**Intro (Ch 1)**
Assigned: Mon 01.05          Total Points: 50

MAY ONLY BE TURNED IN IN THE LECTURE/LAB LISTED ABOVE AS THE DUE DATE,
or offered in person, for in person grading, during instructor or TAs office hours.
See the course syllabus at https://foo.cs.ucsb.edu/16wiki/index.php/W15:Syllabus for more details.

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(1) (10 pts) Fill in the information below. Also, fill in the A-Z header by

- **coloring in** the first letter of your first and last name (as it appears in Gauchospace),
- writing **either 9,10,11,12,1 or 2** to indicate your **discussion section (lab)** meeting time
- writing your **first and last initial** in large capital letters.

All of this helps us to manage the avalanche of paper that results from the daily homework.

| name: | |
|---|---|
| umail address: | @umail.ucsb.edu |

If you collaborated with AT MOST one other person on this homework, write his/her name below. She/he should also have your name on his/her paper.

2. (4 pts) Before you come to your first discussion section (lab), PLEASE visit this website and create your College of Engineering account (unless you already have one). Then write your College of Engineering username below. (DO NOT WRITE YOUR PASSWORD!!!!! NEVER WRITE DOWN YOUR PASSWORD!!! Just your username!)
   - website: https://accounts.engr.ucsb.edu//create
   - write your username here:

*Reading: Read Chapter 1, with a special focus on pages 18-32. (If you don't have a copy of the textbook yet, there is one on reserve at the library.)*

*Then, answer the following questions. Be sure to check both sides.*

3. (5 pts) Not including any comments that may appear, what are the first two lines that typically begin a C++ program that is going to may either output on the screen, and/or read input from the keyboard?

Please turn over...

4. The author describes the difference between "syntax errors" and "logic errors", and also the difference between syntax errors that produce an "error message" vs. those that produce a "warning message". Briefly explain each of these in a way that makes the DIFFERENCES among them clear:

   a. (5 pts) Syntax errors that result in an error message:

   b. (5 pts) Syntax errors that result in a warning message

   c. (5 pts) Logic errors

5. As you discovered when you read the textbook, for the most basic kind of input and output, C++ uses two words, and two symbols, along with variables and quoted strings. Unlike in some other languages (e.g. Python), quoted strings must always use double quote marks "like this", never single quotes 'like this'. (Single quotes are used for another purpose.) Inside a quoted string, `\n` means "newline". Quoted strings can only be output, while the value of a variable can be either output to the screen, or read in from the keyboard. Variable names are not put inside quotation marks. Also remember that every line of C++ that does input or output must end in a semicolon.

   a. (4 pts) What line of C++ will print out `Hello World` followed by a newline? (For full credit, be sure to end your line with a semicolon. That's true of all the problems in this section, but this is the only time I'll remind you.)

   b. (4 pts) Assuming the variable `int age;` has already been declared, what line of code will read in a value for age from the user?

   c. (4 pts) Assuming the variable `int balance;` has already been declared, write two lines of code that will ask (prompt) the user for a value for balance, then read in the value of balance.

6. (4 pts) The textbook describes C++11 on p.27. Briefly, what is C++11? (A one sentence answer is good enough. Note that if your textbook doesn't describe C++11 on p. 27, then you may have the wrong edition. You need the ninth edition.)