

CS 1410-030

Circle your lab start time: Name:

Homework #4

8:35 AM 10:45 AM

9:40 AM 11:50 AM

UID:

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Lab completed: ____ / 15 pts	TA mark: ____	Questions: ____ / 15 pts	Total: ____ / 30 pts
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This homework is due Friday, September 14 in lab. You should print out and complete this homework prior to Friday's lab. (Please hand in one sheet of paper with double-sided printing on it.) Write your name and UID above. Your TA will collect your homework after you complete lab. (There will not be time in lab to complete this homework.)

The following questions are based on Wednesday's lecture.

**Functions, Parameters, and Variables**

1. (3 points) Complete this worksheet prior to lab, then arrive on-time to lab. (Being on-time and ready for lab is always worth a few points.)
2. (1 point) Global variables and local variables have different scope. Separately describe the scope of both global and local variables.
3. (1 point) Global variables and local variables have different lifetimes. Separately describe the lifetime of both global and local variables.
4. (2 points) Give the general form of a function header and briefly note the meaning or purpose of each part.
5. (2 points) Describe the scope and lifetime of a function parameter (also called an argument). Also, when is a parameter initialized with a value?

*Continued...*

6. (2 point) Assume you have written a function, and now you want to use that function from within your main function. How do you cause your other function to execute? (Explain in general what the programmer writes.)
7. (2 point) What happens immediately after a `return` statement executes? (Which statement executes next?) (Explain in general what happens next.)
8. (2 points) List two programming-related problems that programmers encounter when they fail to format or document their code: