

CMSC 216 Quiz 1 Worksheet

The first quiz for the course will be on Wed, Sep 10. The following list provides additional information about the quiz:

- The quiz will be a written quiz (no computer).
- The quiz will be in lab session.
- Closed book, closed notes quiz.
- Answers must be neat and legible.
- Quiz instructions can be found at <http://www.cs.umd.edu/~nelson/classes/utilities/examRules.html>
- Make sure you know your section number and your TA's name.

The following exercises cover the material to be included in this quiz. Solutions to these exercises will not be provided, but you are welcome to discuss your solutions with the TA or instructor during office hours. It is recommended that you try these exercises on paper first (without using the computer).

Exercises

1. What is the first name of your lab TA and what is your section number? You will lose points in the quiz if you have the wrong information.
2. Name at least one difference between a `#include` and an `import` statement in Java.
3. Name and briefly explain the compilation stages associated with a C program.
4. Write a Unix command that will copy all C files present in the directory `/tmp` to your home directory, assuming your current directory can be any directory.

5. What is the size (in bytes) of a `char` type?
6. What is the initial value associated with the following variable definition?

```
int x;
```

7. Suppose you write a C program and it has an infinite loop. How do you stop the program?
8. What possible problem(s) are associated with the following code fragment?

```
int x;  
scanf("%d", x);
```

9. What does "Segmentation fault" mean? What happened?
10. Write a complete C program that reads two integer values, and prints the powers of two of values in the specified range. You can assume the first value is less than or equal to the second. For example, if the user enters 3 and 4, we expect to see 8 16.
11. For this quiz, you will need to provide examples of academic integrity violations. The following is the list you need to know:
 - a. Hardcoding of results in a project assignment.
 - b. Using any code available on the internet/web.
 - c. Hiring any online service to complete an assignment for you.
 - d. Posting your implementation of any class project on the internet/web.
 - e. Discussing projects with your classmates.
 - f. Sharing your code or your student tests with any student.
 - g. Looking at another student's code.