

Name (PRINTED): _____

Student ID #: _____

Section # (or TA's: _____
name and time)

CMSC 106

Quiz #1

Fall 2007

This quiz is worth 30 points total, and there are questions on BOTH SIDES of the paper. You have 10 minutes to finish this quiz.

1. [4 pts.] Give the sequence of UNIX commands which would be used (1) to create a source file named `this.c` (or open it for editing if it already exists in the current directory), (2) compile that source file (assuming you saved it in the previous step), and (3) run the executable file created by that compilation. Use the tools discussed in class to preform each of these tasks, and note that each of the commands is given at the UNIX shell prompt.

`% emacs this.c` _____

`% gcc this.c` _____

`% a.out` _____

2. [4 pts.] **Briefly** describe the purpose of each of the UNIX commands given here

`ls - list directory contents` _____

`cd - change directory` _____

`rm - remove files` _____

`cp - copy` _____

3. [3 pts.] Give an example of one escape sequence that can be used within the string passed to the `printf` function. `\\ \n \t`

and describe it's purpose.

`\\` prints the `\` character

`\n` makes a new line

`\t` creates a tab

4. [3 pts.] Give an example of one format specifier (place holder) that can be used within the string passed to the `printf` function. `%d %f`

and describe it's purpose.

`%d` digit

`%f` float

5. [16 pts.] What is the output generated for each of the following statements, given the declarations shown? Each subpart is independent and does not rely on the results of those above it. Be sure to leave the correct whitespace (blank lines if appropriate and use an underscore to indicate each blank space).

```
int x= 2, y= 5;  
float z= 2.879;
```

a. `printf("%d-%d", x * x, y - x);`

4-3

b. `printf("\nx\\y\n");`

x\y_____

c. `printf("%d(%.1f)\n",x,z);`

2(2.9)_____

d. `printf("%.2f", z - x);`

0.88_____
