**Problem**:

Practice writing printf statements.

You will write several printf statements to achieve the results below, including the line spacing. There is no room for creativity in this assignment. I want you to be able to control your print output to a specification. Use the quote that is given below.

Start in your home directory.

Type: **cd csc60**

Type: **mkdir lab3**

Type: **cd lab3**

Type: **vim lab3.c**

*Start your code with (Approximate the number of dashes):*

**/\*--------------\*/**

**/\* Your Name \*/**

**/\* Lab 3 \*/**

**#include <stdio.h>**

**#include <stdlib.h>**

**int main(void)**

**{**

**int age = 22;** *// You must use this variable*

**double average = 416.67234;**

* Obviously, your output (as shown below) will not say **bielr** on it.
* I want the line spacing just as it appears below…double spaced.
* Yes, you may move the starting brace to the end of the line above if you desire.
* **Write one printf for each line that appears below**.
* Regarding the quote and its attribution, you may do it in either **one or two printf** statements.
* You **must** use the quote that is on these directions. Do not change it.

**Write code to cause this Output:**

**[bielr@athena lab3]>** a.out

Your Name Here. Lab 3.

Mary went to the store.

// *When printing the friend’s age, write the printf*

My friend is 22 years old. // *so it will only print 2 digits.*

"So many books, so little time."

- Frank Zappa

The average = 416.7 \* // When printing **average** the first two times, you **must**

// use both a *total character width of the number* and

The average = 416.672 // the *after-the-decimal- point-count* in your conversion

// specifier. **more on next page 🡪**

The average = 4.17e+02 \* // There should be one blank line between this line and // the one above it. \* fixed error

The average = ?????????? // For this last line, print the average with a simple “**%f**”

// to see what happens.

**[bielr@athena lab3]>**

**Preparing your work for grading:**

When all is well and correct,

type: **script StudentName\_lab3.txt** Script will keep a log of your session.

type: **gcc lab3.c** to compile the program.

type: **a.out** to run the program.

type: **exit** to leave the session.

**PS:** If you do not type **exit** as you leave your script session,

you will end up with an empty file.

**Turn in your completed session: 20 points**

Go to Canvas and turn in two files:

1. lab3.c *// the code file*
2. StudentName\_lab3.txt *// the script file*

**Reading Assignment:**

Read the Power Point files named **C-3 ControlStructures** and **C-4 Loops**

Mostly you will all know the concepts of the material. You just need to pay attention to “how to spell it”. (There will be some questions on the first test from this assignment.) I will give everyone some points for this. There is nothing to turn in.

These files should be read before you start on Lab 4.