

**Problem:**

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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 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 = 246.23689;
```

- Obviously, your output (shown below) will not say **bielr** on it.
- I want the line spacing just as it appears below.
- 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.
- Do **not** use a different quote for this assignment.
- When printing the friend's age, write the printf so it will only print 2 digits.
- When printing **average**, you **must** use both a total width and the after-the-decimal-point value in your conversion specifier.
- Remember to print your name and "Lab 3" in the output.

**Output:**

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[bielr@athena lab3]> a.out

Ruthann Biel. Lab 3.

Jane went to the store.

My friend is 22 years old.

"So many books, so little time."

- Frank Zappa

The average = 246.2

The average = 246.237

The average = 2.46e+02

[bielr@athena lab3]>

**Preparing your work for grading:**

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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 don't type **exit** to leave your script session,  
you will end up with an empty file.

**Turn in your completed session.**

Go to Canvas and turn in two files:

1. lab3.c
2. StudentName\_lab3.txt

Worth 14 points.

**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". I will give everyone a few points for this. There is nothing to turn in.

You should have read these before you start on Lab 4.