Project 1: Introduction to Java

Due: Monday, September 2, 2013 by 11:59 p.m.

Deliverables

The following project files should be submitted to Web-CAT by the due date and time specified above (see the Lab Guidelines for information on submitting project files). If you are unable to access Web-CAT, you may submit your project files via e-mail to your lab instructor. Projects sent via e-mail past the deadline at 11:59 p.m. will not be accepted without a university-approved excuse.

Files to submit to Web-CAT:

- MyLifeGoals.java
- JLetter.java

Specifications

Overview: You will write two programs this week. One will print your short-term, medium-term, and long-term life goals to standard output, and the other will display letter J as a large block letter. Because these are small programs, you will only need to have 1-2 sentences of description in your class and method Javadoc comments (don't forget the @author and @version tags in the class-level comment).

- **MyLifeGoals.java**

Requirements: Write the application MyLifeGoals that prints your name, your short-term, medium-term and long-term life goals.

Design: Your program should contain a main method that prints the information listed under "Output" (i.e., your output should replace the text in Italics).

Output:
Your first and last name (separated by a space) *(The second line should be blank)* *Describe your short-term life goals.(in one line)* *Describe your medium-term life goals. (in one line)* *Describe your long-term life goals. (in one line)*

Describe your life goals (if you have never thought about them, this is a good chance to think about them carefully). The actual output for each line needs to be at least 100 characters not including spaces.

Code and Test: The expected output for the program will vary from student to student, but it is important to follow output pattern described above, formatting requirements, and minimum character requirements. If you aren't sure how many characters are in your output, you can copy your output into Microsoft Word and use the Word Count feature under the Review ribbon.

- **JLetter.java**

Requirements: Write the application JLetter that displays letter J as a large block letter composed of the character 'J' arranged in a pattern with a width of 12 characters and a height of 10 lines. Each line should begin in column 1 with appropriate leading spaces in lines 3, 4, 5, and 6. Trailing spaces at the end of each line should be avoided.

Design: Your program should contain a main method that prints exact the same pattern as shown in Figure 1. This means that you should have 10 lines of output with each line in the pattern indicated.

```
JAVAJAVAJAVA
JAVAJAVAJAVA
        JAVA
        JAVA
        JAVA
        JAVA
J       JAVA
JA      JAVA
 JAVAJAVA
  JAVAJA
```

Figure 1. Output from JLetter program

Code and Test: The expected output contains 10 lines of letters in the specified order. Note that the first line of output has no leading spaces. Make sure that you print the pattern exactly as it appears above.

Grading

Web-CAT Submission: You'll have 10 attempts to receive full credit for your two program files, but you should try to get everything right on the first submission. **Make sure that you submit both programs files at the same time. If you only submit one of the files, the submission will receive zero points for correctness**. Activity 1 describes how to create a jGRASP project containing both of your files.