CSI 1390  Assignment 3  Fall 2012

Instructions:
1. The assignment is due before **11:59 PM on Saturday, November 10th, 2012**
2. This assignment is to be solved **INDIVIDUALLY**.
3. For each question you have to write a Java program, name each question as **A1QY**, where **Y** is the number of the question, paste your java code to .doc file and zip all your files in **A1_xxxxxx.zip**, where **xxxxx** is your student number, and submit it through the Virtual Campus.
4. Assignments submitted after November 10th will be marked with 15% penalty. Submissions after November 11st will receive a mark of 0.

**Question 1 (50 marks):**
Write a program to read a list of exam scores given as integer percentages in the range 0 to 100. Display the total number of grades and the number of grades in each letter-grade category as follows: 90 to 100 is an A, 80 to 89 is a B, 70 to 79 is a C, 60 to 69 is a D, and 0 to 59 is an F. Use a negative score as a sentinel value to indicate the end of the input. (The negative value is used only to end the loop, so do not use it in the calculations.) For example, if the input is 98 87 86 85 85 78 73 72 72 72 70 66 63 50 −1, the output would be
Total number of grades = 14
Number of A’s = 1
Number of B’s = 4
Number of C’s = 6
Number of D’s = 2
Number of F’s = 1

**Question 2 (50 marks):**
Write a program that asks the user to enter the size of a triangle (an integer from 1 to 50). Display the triangle by writing lines of asterisks. The first line will have one asterisk, the next two, and so on, with each line having one more asterisk than the previous line, up to the number entered by the user. On the next line write one fewer asterisk and continue by decreasing the number of asterisks by 1 for each successive line until only one asterisk is displayed. Hint: Use nested for loops; the outside loop controls the number of lines to write, and the inside loop controls the number of asterisks to display on a line. For example, if the user enters 3, the output would be
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