## CS 180 Problem Solving and OO Programming

(More) Practice Problems: Set 2 February 10, 2019

1. Write a Java program that prompts the user to enter a number. The program continues to prompt the user to enter a number until the user enters a 0. Then the program prints the average of all numbers entered.

## Example:

Enter a number: 20.5 Enter a number: 10.2 Enter a number: 0

Average of numbers entered is: 15.35

- 2. Modify the program written in Q1 so that the program stops asking for input after the user has entered a zero (0) three times. Note that the user might enter a 0 and then enter a non-zero number. Your program should keep adding the non-zero numbers entered by the user until a 0 has been entered three times.
- 3. Modify the program written in Q2 so that the program stops asking for numbers after the user has entered a zero three times consecutively.
- 4. Write a Java program that reads a string of characters from the input. It counts the number times the character \* occurs followed by any of the characters 'a' or 'b' and prints the count. Thus, if the input string is: "this is \*a and \*b and \*\*. Does it work \*\*a?", then the output of your program should be 3.
- 5. Write a Java program that reads a positive decimal integer from the console and converts it to an equivalent binary number.
- 6. Write a program that inputs a string of letters from the keyboard and prints out the sorted list. For example, if the input is "bcad" then the output should be "abcd".
- 7. Modify the program in Q5 so that the new program can convert both negative and positive decimal integers to binary.

<End of Problem set 2>