**CMSC 131 Quiz 3 Worksheet**

The third quiz for the course will be on Mon, Sep 27. The following list provides more information about the quiz:

- The quiz will be a written quiz (no computer).
- The quiz will be in your lab (discussion) session.
- Closed book, closed notes quiz.
- Answers must be neat and legible. We recommend that you use pencil and eraser.

The following exercises cover the material to be included in this quiz. Solutions to these exercises will not be provided, but you are welcome to discuss your solutions with the TA or instructor during office hours.

**Exercises**

1. When do we use a do while?
2. When do we use a for loop?
3. What is short-circuiting?
4. Write a complete program that computes the factorial of a number. For example, factorial of 4 (4!) is 24. Use JOptionPane method for input and output.
5. Write a complete program that prints the sum of odd numbers between min (inclusive) and max (inclusive). The program will read the values min and max and display the sum. You can assume min and max are integer values.
6. Write a complete program that prints a table with the even numbers between min (inclusive) and max (inclusive). The program will read the values min and max and display the table. Use the Scanner class to read values. You can assume min and max are integer values.
7. Write a complete program that reads four numbers and displays a histogram based on those numbers. For example, if the user enters 2 5 4 1 the program will display:

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8. Write a complete program that reads a number and displays a set of asterisks that resembles letter Z. For example, if the user enters 5 the set of asterisks will be:

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