CSCI-101 Programming 1

Practice Problems - Set 3

Tip of the Day: If you have two int variables (say, value1 and value2) you can swap their values using the following code.

```
int temp = value1;
value1 = value2;
value2 = temp;
```

Write fragments of code that do the following:

1. Asks the user to enter 2 integers. Use a while-loop to print on the same line the numbers between the values entered by the user (inclusively).

2. Asks the user to enter 2 integers. Use a while-loop to print on the same line the even numbers between the values entered by the user (inclusively).

3. Asks the user to enter 2 integers. Use a while-loop to print on the same line the numbers between the values entered by the user (inclusively) that are divisible by 2 or 3.

4. Asks the user to enter 2 integers. Use a while-loop to print on the same line the numbers between the values entered by the user (inclusively) that are divisible by 2 and 3

5. Asks the user to enter 2 integers. Use a while-loop to compute and print the sum of the numbers between the values entered by the user (inclusively)..

6. Asks the user to enter 2 integers. Use a while-loop to compute and print the sum of the even numbers between the values entered by the user (inclusively).

7. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the number of non-zero values entered by the user.

8. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the number of even non-zero values entered by the user.

9. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the number of non-zero values that are divisible by 2 or 3.

10. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the number of non-zero values that are divisible by 2 and 3.

11. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the sum of the non-zero values entered by the user.

12. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the sum of the even non-zero values entered by the user.

13. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the largest non-zero value entered by the user.

14. Ask the user to enter a sequence of numbers ending in 0, then use a while-loop to compute and then print the number of times the first value that the user entered appears in the sequence.