100pts total

Welcome back!

Our first lab is a review, "warm-up" lab -- the purpose is just to refresh your programming skills after the long break.

\*Please don't forget to use proper code style:  include a program header and comment your code.\*

In this lab, I will ask you to implement solutions for several problems based on textbook chapters that were covered in CITC 1310 (CSIT 1510):

Problem 1: (34pts)

Please create a program that will use a loop (or loops) to print out all numbers between 1 and 200 that are divisible by 5 OR by 6 (but not by both 5 AND 6). So for example, 30 should NOT be printed out because it's divisible by both 5 and 6. But 25 should be printed out -- it's divisible by 5, but not by 6. Your file should be called lastname\_prog1.java (substitute your own last name for "lastname").

Problem 2: (33pts)

Please modify your program from Problem 1 to do the following:

Prompt the user to enter two numbers (integers).

Use these numbers instead of 5 and 6 in Problem 1. So for example, if the user enters 11 and 38 your program should print out all numbers between 1 and 200 that are divisible by 11 OR 38 (but not both). The file should be called lastname\_prog2.java (your own last name in place of "lastname").

Problem 3: (33pts)

Please create two overloaded methods (if you don't remember what these are, see Chapter 6) that return the average of data in an array. Use the following headers:

public static int average(int[] arr)

public static double average(double[] arr)

Include these methods in a test program (call file lastname\_prog3.java, using your own last name in place of "lastname"). Invoke both, and print out the results. You may hardcode any test data you'd like -- whatever you find helpful in testing that your code works correctly.