

Homework #3

Course: COP 3223C

Semester: Spring 2016

Due Date: February 22, 2016

Credit Value: 10% of final grade

Simple Conditional and Loops

Program Specification: Write a program that requests integer numbers from the user repetitively through the keyboard (using `printf` and `scanf`) until the user enters 0. Create two variables that accumulate the numbers entered, one for the even numbers and the other the odd numbers. The program should also ask the name of the user and save it as a string. Upon completion of the entering process, the program prints out the name of the user, the number and the total of the even numbers entered, and the number and the total of the odd numbers entered. Use at least one user-defined function besides `main()`. There is no need to save any of the individual values during the program execution - only their cumulative totals. The output should be as follows:

```
<user name entered>, the numbers you entered are broken down as follows:  
You entered <aaa> even numbers with a total value of <bbb>.  
You also entered <ccc> odd numbers with a total value of <ddd>.
```

Where the labels between < > are variables whose values will be printed in its place.

Learning objectives: You must make use of conditional structures, repetitive structures, variables, and `scanf/printf`, as well as defining a user-defined function.

Submission instructions: Submit your program source code as a .c file through the Webcourses homework submission. Please name the file as HW3 - <first initial> <last name> and put your full name as the first or second comment line.