C Course :: Fall 2008, Lab Session

23 August 2008

Problem 1

Problem

You already know the various operators in C.

Mathematical Operators: *, /, +, -, ++, --, %

Comparison Operators: <, > , <=, >= , !=, ==, !, &&, ||

Bitwise Operators: <<, >>, ~, &, | ,^

Take two integers (i1, i2) and two float values(f1, f2) as input from the user and print the following:

1. Average of floating numbers.
2. Bitwise-OR and Bitwise-AND of integer numbers.
3. Left-shift i1 by 2 places and Right-shift i2 by 1 place and print out the result. (Note that left shift multiplies the number by 2 and right shift divides it by 2)

Input

Ask user to enter i1, i2.
Ask user to enter f1, f2.

Sample

Enter i1 and i2: 5 6

Enter f1 and f2: 3.0 8.0

Average of f1 and f2 is: 5.5000

Bitwise-OR and Bitwise-AND of i1 and I2 is: 7 and 4

i1 shifted left by two places: 20 and i2 shifted right by 1 place: 3

Problem 2

Problem

You are given a three digit decimal integer. Print out the sum of its three digits.

Input

Ask user to enter an integer from console.

Output

Output the sum of individual digits of the number.

Sample

Enter a three digit integer: 786

Sum of the digits of the number is: 21