

CSC 243: Introduction to Object Oriented Programming

Lab III
22. Oct. 2014

Problem 1

Write a program that reads two integers x and y from the user and prints the sum of all numbers between x and y (inclusive).

Assume that x will always be less than y .

Sample Input

2 10

Sample Output

54

Problem 2

Write a program that keeps reading integers until -1 is entered. Your program should then print the total number of even and odd numbers entered by the user.

Assume that all input will be positive.

Sample Input

5 2 7 9 1 6 4 -1

Sample Output

4 odd
3 even

Problem 3:

Write a program that reads two integers x and y from the user then prints the value of x^y .

Note that you should not use the `Math.pow` function to compute the result. You can only use it to verify that your answer is correct.

Sample Input

5 3

Sample Output

125

Problem 4:

Write a program that reads two integers x and y from the user. If x is less than y , your program should print their sum and determine if it is even or odd. Otherwise, if x is greater than or equal to y , your program should print their product and also determine if it is even or odd.

Sample Input

5 9

Sample Output

14 even

Problem 5:

Write a program that reads a string then prints the number of vowels and non-vowels found in it.

Assume that the input string will not contain spaces and will always be in lower-case.

Sample Input

programming

Sample Output

3 vowels

8 non-vowels