



Funciones definidas por el usuario en C++

Ejercicios propuestos para el uso de funciones part1

1. Write three different value-returning function, that return the value true if a given number is Even, otherwise return false for Odd. (Tip: use IF, Ternary and Bitwise)
2. Write a value-returning function, isVowel, that returns the value true if a given character is a vowel and otherwise returns false.
3. Write a program that prompts the user to input a sequence of characters and outputs the number of vowels. (Use the function isVowel written in Exercise 2.)
4. Write a function, reverseDigit, that takes an integer as a parameter and returns the number with its digits reversed.
 - a. For example, the value of reverseDigit(12345) is 54321; the value of reverseDigit(5600) is 65; and the value of reverseDigit(-532) is -235.
5. Write a program that takes as input five numbers and outputs the mean (average) and standard deviation of the numbers. If the numbers are x_1 , x_2 , x_3 , x_4 , and x_5 , then the mean is $x = (x_1 + x_2 + x_3 + x_4 + x_5)/5$ and the standard deviation is:

$$s = \sqrt{\frac{(x_1 - x)^2 + (x_2 - x)^2 + (x_3 - x)^2 + (x_4 - x)^2 + (x_5 - x)^2}{5}}$$

- a. Your program must contain at least the following functions: a function that calculates and returns the mean and a function that calculates the standard deviation.