NORG2

Sample programs

Average:

Computes the (integer) average of integers that are input:
You are asked to input an integer. Input a number and type enter. Then input the next number. End the input sequence by typing end + Enter. Then the average of the inputs is output.

BinToDec:

You are asked to input a binary number (+ Enter). Outputs the number converted to decimal, if number >= 0.

Bottles:

The famous 99 bottles of beer program.

ConsoleToFile:

Reads a series of strings input via the console and writes it to the output file. Terminates when the input string is empty.

DecToBin:

You are asked to input a number (+ Enter). Outputs the number converted to binary, if number >= 0.

DecToRoman:

You are asked to input a number (+ Enter). Outputs the number converted to roman, if number > 0 and < 5000.

Factorial:

Input an integer and type enter. The factorial is computed and output.

Fibonacci:

Input an integer <n> and type enter. Outputs the first <n> fibonacci numbers.

FileToConsole:
Reads the lines from the standard input file associated with the program and outputs the contents to the console, until EOF is reached.

FizzBuzz:
The (esoteric) Fizzbuzz program. You are asked to input an integer number (+ Enter). Output is FizzBuzz output up to and including this number.

Function:
list the values of the function ax^2+bx+c for x=0..10 after input of a,b,c at the console.

Hello:
Outputs Hello World.

Lower:
You are asked to input a string (+ Enter). Outputs the string in lower case. Note that this program doesn't actually save the converted string but simply outputs one (converted) char after the other.

Pascal:
compute Pascal's triangle from 1 to 10.

Prime:
Input an integer number > 0. Output is 'prime' if the number is a prime, 'not prime' otherwise.

Repeat:
Your are asked to input a string and the repetition factor (n). Output is the string repeated n times (if n>0).

Reverse:
You are asked to input a string (+ Enter). Reverses the string and outputs the result.

RomanToDec:

You are asked to input a roman number (+ Enter). Outputs the number converted to decimal, if number > 0.

Sieve

Determine the prime numbers between 2 and 100 with the sieve of Eratosthenes method.

Slength:

You are asked to input a string (+ Enter). Outputs the string length.

Substring:

Your are asked to input a string, the starting position of the substring (where the first Position is 0) and the length of the substring. Output is the substring.

Sum:

Computes the sum of integers that are input:
You are asked to input an integer. Input a number and type enter. Then input the next number. End the input sequence by typing end + Enter. Then the sum of the inputs is output.

Upper:

You are asked to input a string (+ Enter). Outputs the string in upper case. Note that this program doesn't actually save the converted string but simply outputs one (converted) char after the other.