

*Objective of the session :*

Implement a simple program by dividing its code into relevant subprograms.

## 1 Problem statement

Write a program that reads a string of characters entered by a user. The string represents a series of additions and subtractions. The program must display the result on the screen.

For example if a user enters the string "2+24-13+1" the result displayed on the screen must be 14.

Hypothesis : To simplify the problem, we will assume that the input contains only numbers and symbols '+' and '-'.

## 2 Pre-defined functions

The following three functions are already defined :

{returns the size of the string str}

**function** length (str : String) : Integer

{returns the substring of size longueur starting from the position debut of the string str}

**function** copy(str : String, debut : Integer, longueur : Integer) : String

{In the sysutils unit. It returns the integer value represented by the string str}

**function** strToInt (str : String) : Integer

## 3 Exercise

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### *Exercices*

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1. Think about how to solve this problem
  2. Implement the found solution
  3. Check that the code works in all cases (more than two operands, numbers composed of 1 or more digits, first character being an operator...)
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