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The Virtual Learning Environment for Computer Programming

## Prefix expression

P59813_en
Write a program that reads a prefix expression, and prints the result of evaluate it. The possible operators are sum, subtraction and multiplication. The operands are natural numbers between 0 and 9 (both included).

## Input

Input is a prefix expression. It means that always appears the operator before its operands. For instance, the expression $4+3$ would be:
$+43$
The expression $8 *(4+3)$ would be:

* $8+43$

The expression $(2-8) *(4+3)$ would be:

* $-28+43$


## Output

Your program must print an integer: the result of evaluate the expression.

## Observation

Use recursion (not tables). Notice that an expression or is a digit, or is an operator followed by an expression followed by another expression.

## Sample input 1

$+43$

## Sample input 2

* $8+43$


## Sample input 3

* $-28+43$


## Sample output 1 <br> 7

Sample output 2
56
Sample output 3
-42

## Problem information

Author: Salvador Roura
Translator: Carlos Molina
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