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The Virtual Learning Environment for Computer Programming

## Prefixed expression (1)

P20006\_en

Write a program that reads a prefixed expression, and prints the result of evaluating it. The three possible operators are sum, substraction and multiplication. The operands are natural numbers between 0 and 9 (both included).

## Input

Input has a prefixed expression. This means that operators always appear before their operands. For instance, the expression 4+3 would be written

+ 4 3

The expression 8 \* (4 + 3) would be written

\* 8 + 4 3

The expression (2-8)\*(4+3) would be written

\* - 2 8 + 4 3

### Output

Print a line with an integer number: the result of evaluating the given expression.

#### Hint

Note that an expression is either a digit or an operator, followed by an expression, followed by another expression. Take inspiration in this fact to write a simple recursive program.

Sample input 1	Sample output 1
9	9
Sample input 2	Sample output 2
+ 4 3	7
Sample input 3	Sample output 3
* 8 + 4 3	56
Sample input 4	Sample output 4
* - 2 8 + 4 3	-42

#### **Problem information**

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