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
```
9
```

Sample output 1
```
9
```

Sample input 2
```
+ 4 3
```

Sample output 2
```
7
```

Sample input 3
```
* 8 + 4 3
```

Sample output 3
```
56
```

Sample input 4
```
* - 2 8 + 4 3
```

Sample output 4
```
-42
```

Problem information

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