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Reverse Polish notation

P52023_en

Evaluate arithmetic expressions given in the so-called reverse Polish notation. For instance, the expression

$$3 + 154$$

in reverse Polish notation is given as

$$3\ 154\ +$$

That is, the two operands are given first, and afterwards comes the corresponding operator. A more complicated expression like

$$((3+4)*(2-8))+(2+5)$$

is given as

$$34 + 28 - *25 + +$$

Input

Input consists of several arithmetic expressions in reverse Polish notation, one per line. The operands are natural numbers. The possible operators, all binary, are '+', '-', and '*.

Output

For every expression, print the result of its evaluation.

Sample input

Sample output

3	154		+									
3	4	+	2	8	_	*	2	5	+	+		
99	9											

157
-35
99

Problem information

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