Reverse Polish notation

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

\[ ((3 + 4) \times (2 - 8)) + (2 + 5) \]

is given as

\[ 3 \ 4 \ + \ 2 \ 8 \ - \times \ 2 \ 5 \ + \ + \]

**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.

<table>
<thead>
<tr>
<th>Sample input</th>
<th>Sample output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 154 +</td>
<td>157</td>
</tr>
<tr>
<td>3 4 + 2 8 - * 2 5 + +</td>
<td>-35</td>
</tr>
<tr>
<td>99</td>
<td>99</td>
</tr>
</tbody>
</table>

**Problem information**

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