

# ASTU-ICPC

## Postfix

### Discription

Task Postfix expressions are arithmetical expressions where the operators come after anything they operate on. Postfix is important because it maintains precedence without the use of brackets. An example of a postfix expression would be:

3 5 \* This would be evaluated as  $3 * 5$  resulting in an answer of 15.

6 4 \* 2 + this would be evaluated as  $2 + (6 * 4)$  resulting in an answer of 22.

### Input

Inputs will contain a postfix expression, which will be no more than 80 characters in length followed by a newline and will contain one expression to be evaluated. All expressions will be correct postfix expressions. There will be one space between each number/operator. The only operators we are interested in is + (addition), - (subtraction), and \* (multiplication). There is no division. All numbers are non-negative integers. In the end of line putting the character '#' will terminate the input.

### Output

Your program is to output the result of evaluating the expression. Note that while the input numbers will not be negative, the answer may be negative.

### Sample Input (2 different scenarios)

3 5 \* #

6 4 \* 2 + #

### Sample output

15

26