

# Tertiary Calculator

In this problem, you will implement a simple arithmetic expression parser.

Given lines of two arithmetic operations (one of addition, subtraction, multiplication, or division), you will output lines that constitute the mathematical evaluation of the corresponding input lines, taking operator precedence into account.

Intermediate calculations should be done in double precision.

## Input

Each input line is in the format:

```
num1 [op1] num2 [op2] num3
```

All numbers are single-precision floating point numbers.

Operators can be one of '+', '-', '\*', and '/'

## Output

For each input line, you will output the result of evaluating the input arithmetic expression, taking operator precedence into consideration ('\*' and '/' have higher precedence than '+' and '-').

## Example

### Input:

```
56.1814 * -896.744 / -1.90273e+06  
-75.3324 - 14.335 / 170943  
81.6215 / 154.868 - -3.05828e+06
```

### Output:

```
0.0264779  
-75.3325  
3.05828e+06
```

HINT: use `atof()` to convert input numbers into single-precision floating point numbers, and use `printf("%g")` to output the calculated double precision results. Continue reading input lines until no more input characters are available.