

A - Arithmetic Expressions

Source file name: `arithmetic.py`

Time limit: 1 second

Let's start with an easy problem. Given a set of arithmetic expressions, the goal of this problem is to obtain their evaluation values. For instance, given the expression $(3.00 + 4.50)$ its evaluation value will be the real value 7.50.

The arithmetic expressions of real numbers *Expression* considered in this problem have the form:

$$\begin{aligned} \text{Expression} &::= \text{Real} \mid (\text{Expression} \text{ op } \text{Expression}) \\ \text{Real} &::= \text{"real number with two decimal digits"} \\ \text{op} &::= + \mid - \mid * \mid / \end{aligned}$$

Given an arithmetic expression, the goal is to obtain its evaluation value.

Input

The first line contains a natural number N that indicates the number of arithmetic expressions to evaluate, followed by the arithmetic expressions, each one of the *Expression* form. You can assume that all the parenthesis, operators, and numbers are separated by spaces, and that there are no divisions by zero.

Warning: it is not valid to use Python's evaluation function `eval`.

The input must be read from standard input.

Output

For each input case, the output will have a line with the real value obtained by evaluating its corresponding arithmetic expression. The real number will have two decimal digits, rounding to the nearest real value, without using floating point representation.

The output must be written to standard output.

Sample Input	Sample Output
4	7.50
(3.00 + 4.50)	-2.50
(5.00 - (2.50 * 3.00))	-14.67
((7.00 / 3.00) + (4.00 - (3.00 * 7.00)))	26.04
(-5.25 * (3.04 - 8.00))	