CSEC-ASTU Competitive Programming Contest 2021

Problem 37: **Simple Calculator**

Time Limit: 1 second

Adam is a grade 4 student. He is learning simple math operations. And his teacher gave him an assignment. the assignment contains many questions, but the time given is very short. Help Adam solve all questions in given time..!

Input

Input contains several test cases, one per line. Each test case consists of an expression to be evaluated, containing numbers, parenthesises, and the operators +,−, ∗ ,/.

Normal operator precedence applies, so multiplication and division bind harder than addition and subtraction. All operators evaluate left-to-right. Implicit multiplication is not possible, so 3(1+1)

is not a valid input. There may be an arbitrary amount (including 0) of spaces between tokens. Numbers are integers with absolute value at most 500.

Input is terminated by **EOF(end of file).**

Output

For each test case, output the value of the expression, with **two decimals of precision**.

Sample Input 1	Sample Output 1
5 - 3-2	0.00
5- (3-2)	4.00
5 / 3 / 2	0.83
5 / (3 / 2)	3.33
1/3+1	1.33
1/(3+1)	0.25
-4--2	-2.00
(1-3)/(5+4)	-0.22
2*3*5*7*11*13*17*19	9699690.00
-5/-5	1.00