06 . Arithmetic Expression Evaluator

Condition:

Write a program that accepts a string representing an arithmetic expression and calculates its value, respecting the precedence of operations and using parentheses correctly.

Input:

- On the first line, a string containing an arithmetic expression is entered, which can include numbers, operations (+, -, *, /), and parentheses.

Output:

- The result of the expression is output as an integer or decimal number.

Examples:

Input	Output
(3 + 5 * 2 + 1) / 2	7
(((3 + 4) + (5 * 5)) / 10) * 1	3.2