

## Problem 7: Simple Calculator (10 points)

(General) Calculators represent the most basic, general-purpose of computing machines. Your task is to reduce your highly capable computer down into a simple calculator. You will have to parse a given mathematical expression, and display its result. Your calculator must support addition (+), subtraction (-), multiplication (\*), division (/), modulus(%), and exponentiation (\*\*).

### Facts

- Mathematical expressions in the form of: *num1 operator num2*
- Exponentiation should be in the form *base \*\* exponent*
  - Example:  $3 ** 2 = 9$

### Input

First line is the number of test cases. Each line thereafter is an integer-based mathematical expression in the form defined in the above facts.

### Output

For each test case, display the result of the mathematical expression terminated with a new line character

Sample Input	Sample Output
4	10
3 + 7	4
5 - 1	16
4 ** 2	3
19 / 5	