

Ternary Calculation

Time Limit: 2000 ms Memory Limit: 65536 KB

Complete the ternary calculation.

Input

There are multiple test cases. The first line of input contains an integer T indicating the number of test cases. For each test case:

There is a string in the form of " $number_1 operator_a number_2 operator_b number_3$ ". Each operator will be one of {'+', '-', '*', '/', '%'}, and each number will be an integer in $[1, 1000]$.

Output

For each test case, output the answer.

Sample Input

```
5
1 + 2 * 3
1 - 8 / 3
1 + 2 - 3
7 * 8 / 5
5 - 8 % 3
```

Sample Output

```
7
-1
0
11
3
```

Note

The calculation " $A \% B$ " means taking the remainder of A divided by B , and " A / B " means taking the quotient.

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