ADAlab Online Judge

🏠 Home   ⠿ Problems   🏆 Contests   �
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ℹ About ⌄

binary operators `+` , `-` , `*` , `/` , where the `/` denotes integer division, and brackets `(` , `)` . Given the values for the variables, please calculate the answer.

Note: Here we define integer division as the integer part of division (not rounding down). For example, 8 divided by 7 under division is $1.1428...$, so 8 divided by 7 under integer division will be 1. -8 divided by 7 is $-1.1428...$, so -8 divided by 7 under integer division will be -1 (instead of -2).

Input

The first line is the arithmetic expression.

The second line is an integer T.

In the following T lines, each line has 5 integers: the values for variable A to E.

Constraints

- $1 \le T \le 10$
- Length of arithmetic expression $\le 2 \cdot 10^5$
- $-10^9 \le$ The intermediate values during calculation $\le 10^9$
- Division by zero will not happen during calculation

Output

Output T lines, each line is the answer to a set of values for variable A to E.

Sample Input 1 📋

```
A+B/(C-D)*E
2
4 8 7 6 3
5 7 3 4 1
```

Sample Output 1

```
28
-2
```

Sample Input 2 📋

```
A/B

2
8 7 1 1 1
-8 7 1 1 1
```

Sample Output 2

```
1
-1
```

Hint

Be careful on the result of integer division when the result is negative.

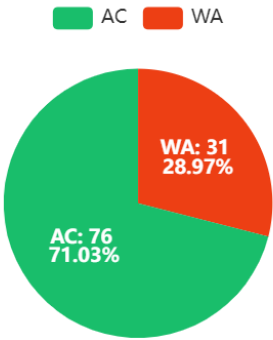### Submissions

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ℹ **Information**

ID	1
Time Limit	2000MS
Memory Limit	512MB
IO Mode	Standard IO
Created By	ta_redleaf
Level	Hidden
Score	100
Tags	Show

Statistic   [Details]

🟩 AC   🟥 WA

WA: 31
28.97%

AC: 76
71.03%

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🏠 Home   ⠿ Problems   🏆 Contests   〰 Status   📊 Rank b101109107 ▼

ℹ️ About ⌄

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☁️

```
1
```

✅ You have solved the problem

⚠️ Contest has ended

🐞 Submit for Sample Test   ✏️ Submit

Sample Test Input

```
A+B/(C-D)*E
2
4 8 7 6 3
5 7 3 4 1
```

Sample Test Output

```
```

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