

Rational Arithmetic

Problem ID: rationalarithmetic

CPU Time limit: 1 second

Memory limit: 1024 MB

Difficulty: 3.4

Input

The first line of input contains one integer, giving the number of operations to perform.

Then follow the operations, one per line, each of the form $x_1 \ y_1 \text{ op } x_2 \ y_2$. Here, $-10^9 \leq x_1, y_1, x_2, y_2 < 10^9$ are integers, indicating that the operands are x_1/y_1 and x_2/y_2 . The operator op is one of '+', '-', '*', '/', indicating which operation to perform.

You may assume that $y_1 \neq 0$, $y_2 \neq 0$, and that $x_2 \neq 0$ for division operations.

Output

For each operation in each test case, output the result of performing the indicated operation, in shortest terms, in the form indicated.

Sample Input 1

```
4
1 3 + 1 2
1 3 - 1 2
123 287 / 81 -82
12 -3 * -1 -1
```

Sample Output 1

```
5 / 6
-1 / 6
-82 / 189
-4 / 1
```

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