

Finding Fractions

[English](#)

[Vietnamese](#)

Given a, b, c, d , find a fraction p/q with minimum q , and satisfied $a/b < p/q < c/d$.

Input

For each test case, one line contains four integers a, b, c, d .

Output

For each test case, print the fraction(see the sample for details).If multiple solution exists, output the one with minimum p .

Example

Input:

```
1 3 1 2
2 1 3 1
2 1 4 1
1000 1001 1001 1002
```

Output:

```
2/5
5/2
3/1
2001/2003
```

Constraints

Dataset 1: a, b, c, d ($1 \leq a, b, c, d \leq 1e9$, and $a/b < c/d$)