

Y Floating Fowl

Time limit: 1s

You and your friend have both built enormous rubber ducks. Now the two of you are fighting: you think yours will float better, while your friend thinks theirs will float better. Of course, the duck that will float better is simply the one with the lowest density, that is, the least weight per volume.

Given the weights and volumes of the two ducks, can you determine which one will float better? And how much better does it float?



Big rubber ducks.
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Input

The input consists of:

- One line with two integers w_1 and v_1 ($1 \leq w_1, v_1 \leq 10^{18}$), the weight and volume of the first rubber duck.
- One line with two integers w_2 and v_2 ($1 \leq w_2, v_2 \leq 10^{18}$), the weight and volume of the second rubber duck.

Output

Provide two outputs:

- Output “first” if the first duck floats better, “second” if the second duck floats better, or “equal” if they will float equally well.
- A number that indicates how much better the less dense duck floats: the difference between the density of the denser duck and the density of the less dense duck.

Your answer should have an absolute or relative error of at most 10^{-6} .

Sample Input 1

5 3	second
4 3	0.333333333

Sample Output 1

Sample Input 2

1 8	first
1 7	0.01785714285714285

Sample Output 2

Sample Input 3

10 5	equal
4 2	0

Sample Output 3