



## second degree equation

- Time limit: 1 second
- Memory limit: 128 MB

The following quadratic equation with coefficients  $a$  and  $b$  and  $c$  Consider:

$$ax^2 + bx + c = 0$$

(The coefficients are never zero together.)

Write a program that solves the equation for these coefficients.

### Input

In the first, second and third lines, in the order of numbers  $a$  and  $b$  and  $c$  to receive

$$-100 \leq a, b, c \leq 100$$

### Output



#### Questions

100

The broken heart of  
Genghis

100

grand theft

100

Pythagorean numbers

150

!!!R

150

**second degree equation**

100

Ojulat

200

head of water

All submissions

Final submissions

Scoreboard

If the equation has two distinct solutions, print two solutions in ascending order (up to three decimal places), if it has one solution, print that solution (up to three decimal places), if it has no true solution, Print the expression `IMPOSSIBLE` .

## Note

In this question, the condition "a is opposite to zero" and "b is opposite to zero" has been removed, and your program must check this condition and in this case it must also be able to calculate the answer to the equation.

## Example

### Sample input 1

```
5
3
0
```

### Sample output 1

```
-0.600
0.000
```

### Sample input 2

```
0
2
```

3  
-5.4

### Sample output 2

1.800

### Sample input 3

0  
0  
1

### Sample output 3

IMPOSSIBILE

POST AN ANSWER TO THIS QUESTION

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