

Quadratic Equation

Given a , b and c in quadratic equation ($a \cdot x^2 + b \cdot x + c = 0$), find all real roots.

Input

You are given 3 integers: a , b and c .

$-1000 \leq a, b, c \leq 1000$

$a \neq 0$

Output

Print the number of real roots, followed by the values of the real roots in ascending order (if they exist).

Your output will be considered to be correct if the difference between your output and the actual answer is not more than 10^{-6} .

Example

Input:

-1 0 2

Output:

2

-1.414213562 1.414213562

Input:

1 2 3

Output:

0

Input:

1 -8 16

Output:

1

4