Cubic Counting - MathGames

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Difficulty: ★ ☆ ☆ ☆ ☆
Key words: Algebra
How many distinct real roots does the cubic

$$x^3 + Ax^2 + Bx + C$$

have? It is guaranteed that the cubic has no double or triple roots.

Input

- Three space-separated integers $-10^5 \leq A, B, C \leq 10^5$, the coefficients of the cubic.

Output

- A single integer, the number of real roots of the cubic.

Examples

Input	Output
0 0 1	1

Input	Output
-3 -2 1	3