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GNU G++17 7.3.0

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E. Equation

time limit per test: 2 seconds memory limit per test: 256 megabytes

Find a number x such that $x^2 + \sqrt{x} = c$.

Input

The input contains one real number C ($1.0 \le c \le 10^{10}$).

Output

Print one number, the required x. The answer will be considered correct if the relative or absolute error is not more than 10^{-6} .

Examples

Examples	
input	Сору
2.0	
output	Сору
1.0	
input	Сору
15.6	
output	Сору
3.698232168829691	

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