

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 ($1.0 \leq c \leq 10^{10}$).

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

input	Copy
2.0	
output	Copy
1.0	

input	Copy
15.6	
output	Copy
3.698232168829691	

→ Submit?

Language: GNU G++17 7.3.0

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