

G. Candies

time limit per test: 0.5 seconds
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Nour has n candies, he wants to distribute all n candies to the children.



What's the maximum number of children who can get candies if Nour gives each child a distinct number of candies.

Input

The only line of input contains an integer n , ($1 \leq n \leq 10^{18}$) – the amount of candies that Nour has.

Output

Print m – the maximum number of children which can get candies.

Examples

input	Copy
15	
output	Copy
5	

input	Copy
7	
output	Copy
3	

ICPC Assiut Advanced Newcomers 2023

Private

Participant



→ Group Contests

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Finished

Practice



→ Virtual participation

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Language: [GNU G++20 11.2.0 \(64 bit, w\)](#)