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B. LCM

time limit per test: 1 second
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Ivan has number b . He is sorting through the numbers a from 1 to 10^{18} , and for every a writes $\frac{[a, b]}{a}$ on blackboard. Here $[a, b]$ stands for least common multiple of a and b . Ivan is very lazy, that's why this task bored him soon. But he is interested in how many different numbers he would write on the board if he would finish the task. Help him to find the quantity of different numbers he would write on the board.

Input

The only line contains one integer — b ($1 \leq b \leq 10^{10}$).

Output

Print one number — answer for the problem.

Examples

input	Copy
1	
output	Copy
1	
input	Copy
2	
output	Copy
2	

Note

In the first example $[a, 1] = a$, therefore $\frac{[a, b]}{a}$ is always equal to 1.

In the second example $[a, 2]$ can be equal to a or $2 \cdot a$ depending on parity of a . $\frac{[a, b]}{a}$ can be equal to 1 and 2.

Codeforces Round #518 (Div. 2). [Thanks, Mail.Ru!]

Contest is running

01:33:15

Virtual Participation



→ Clone Contest to Mashup

You can clone this contest to a mashup.

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→ Submit?

Language: GNU G++11 5.1.0 ▼

Choose file: [选择文件](#) 未选择任何文件

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

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