



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. k-th divisor

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given two integers n and k. Find k-th smallest divisor of n, or report that it doesn't exist.

Divisor of n is any such natural number, that n can be divided by it without remainder.

Input

The first line contains two integers n and k ($1 \le n \le 10^{15}$, $1 \le k \le 10^9$).

Output

If n has less than k divisors, output -1.

Otherwise, output the k-th smallest divisor of n.

Examples

input	
4 2	
output	
ou cpu c	

input	
5 3	
output	
-1	

input	
12 5	
output	
6	

Note

In the first example, number 4 has three divisors: 1, 2 and 4. The second one is 2.

In the second example, number 5 has only two divisors: 1 and 5. The third divisor doesn't exist, so the answer is -1.

Educational Codeforces Round 17

Finished

Practice



→ Virtual participation

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Start virtual contest

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Language:	Microsoft Visual C++ 2010		
Choose file:	Browse	No file s	selected.
	Submit		

→ Last submissions

Submission	Time	Verdict
25165181	Mar/03/2017 11:19	Wrong answer on test 5
<u>25165132</u>	Mar/03/2017 11:16	Wrong answer on test 5

→ Problem tags

math	number theory	
		No tag edit access

→ Contest materials

- Announcement
- Tutorial

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Server time: Sep/24/2017 20:59:19 (c4). Desktop version, switch to mobile version.

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