

IEEEExtreme Türkiye Kampı: Gün 2
EZSORU

Problem

Two numbers are given to you. (n and k)
Find the k^{th} positive number that divides n.
If there doesn't exist k numbers that divide n
print -1.

Input

Input contains one case. (n k)
 $1 \leq n \leq 10^{15}$ $1 \leq k \leq 10^9$

Output

Print the k^{th} number that divides n. If there is
no such number print -1.

Sample Input

12 2

Sample Output

2

Sample Input

7 4

Sample Output

-1

Sample Input

30 5

Sample Output

6

Time Limit

C/C++/Java: 1 secs, Python: 2 secs