

1014. Product of Digits

Time limit: 1.0 second

Memory limit: 64 MB

Your task is to find the minimal positive integer number Q so that the product of digits of Q is exactly equal to N .

Input

The input contains the single integer number N ($0 \leq N \leq 10^9$).

Output

Your program should print to the output the only number Q . If such a number does not exist print -1 .

Sample

input	output
10	25

Problem Source: Ural State University Internal Contest '99 #2