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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

## A. Ehab and another construction problem

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

Given an integer  $x$ , find 2 integers  $a$  and  $b$  such that:

- $1 \leq a, b \leq x$
- $b$  divides  $a$  ( $a$  is divisible by  $b$ ).
- $a \cdot b > x$ .
- $\frac{a}{b} < x$ .

### Input

The only line contains the integer  $x$  ( $1 \leq x \leq 100$ ).

### Output

You should output two integers  $a$  and  $b$ , satisfying the given conditions, separated by a space. If no pair of integers satisfy the conditions above, print "-1" (without quotes).

### Examples

<b>input</b>	<a href="#">Copy</a>
10	
<b>output</b>	<a href="#">Copy</a>
6 3	
<b>input</b>	<a href="#">Copy</a>
1	
<b>output</b>	<a href="#">Copy</a>
-1	

### Codeforces Round #525 (Div. 2)

Finished

### → Practice?

Want to solve the contest problems after the official contest ends? Just register for practice and you will be able to submit solutions.

[Register for practice](#)

### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest](#)

### → Problem tags

[brute force](#) [constructive algorithms](#)

No tag edit access

### → Contest materials

- [Tutorial](#)

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