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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

input	Copy
10	
output	Copy
6 3	
input	Copy
1	
output	Copy
-1	

Codeforces Round #525 (Div. 2)

Finished

→ Practice?

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[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.

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→ Problem tags

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

No tag edit access

→ Contest materials

- [Tutorial](#)

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The only programming contests Web 2.0 platform

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