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?

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