

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**[→ Virtual participation](#)

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brute force

constructive algorithms

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The only programming contests Web 2.0 platform

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