

Problem E. Primes

Time limit 1000 ms
Mem limit 262144 kB
OS Windows

A prime number is a natural number greater than 1 and has exactly 2 divisors which are 1 and the number itself.

You are given a **prime** number n , find any 2 **prime** numbers a and b such that $a + b = n$ or state that no such pair of primes exists.

Input

The input contains a single prime number $n(2 \leq n \leq 10^7)$.

Output

If there doesn't exist any 2 primes such that their summation is equal to n then print -1, otherwise print the 2 primes on a single line separated by a space.

Sample 1

Input	Output
5	2 3

Sample 2

Input	Output
11	-1