Twin Primes (75 points)

Introduction

One of the great open questions of number theory is whether there exists infinitely many **Twin Primes**.

[Twin Primes (http://en.wikipedia.org/wiki/Twin_prime)](http://en.wikipedia.org/wiki/Twin_prime) are a pair of prime numbers p such that given a prime number p[1], p[2]=p[1]+2 is also a prime.

Given a **number K**, can you find the **largest twin primes p** such that **p[1],p[2] ≤ K**?

Input Specifications

Your program will take a number **K (5 ≤ K ≤ 1000)**.

Output Specifications

Based on the input, print out the closest pair of **twin primes ≤ K** comma-separated in ascending order.

Sample Input/Output

Input

5

Output

3,5

Explanation

3 and 5 are both prime numbers ≤ 5 and 3+2=5, making them twin primes.