

# Problem F. F

**Time limit** 2000 ms

**Mem limit** 1048576 kB

## Problem Statement

Find the minimum prime number greater than or equal to  $X$ .

## Notes

A prime number is an integer greater than 1 that cannot be evenly divided by any positive integer except 1 and itself.

For example, 2, 3, and 5 are prime numbers, while 4 and 6 are not.

## Constraints

- $2 \leq X \leq 10^5$
- All values in input are integers.

## Input

Input is given from Standard Input in the following format:

$X$

## Output

Print the minimum prime number greater than or equal to  $X$ .

### Sample 1

Input	Output
20	23

The minimum prime number greater than or equal to 20 is 23.

### Sample 2

Input	Output
2	2

$X$  itself can be a prime number.

### Sample 3

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Input	Output
99992	100003