Next prime number   P50095_en

Write a program that reads a sequence of prime numbers and, for each one, prints the next prime number.

Input

Input is all natural numbers, and consists of a sequence of prime numbers ended with a non-prime number.

Output

For every given prime number, print in a line the next prime number.

Sample input 1	Sample output 1
| ```
7
2
107
12
``` | ```
11
3
109
``` |

Problem information

Author: Salvador Roura
Translator: Carlos Molina

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