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The Virtual Learning Environment for Computer Programming

Sieve of Eratosthenes

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Given several natural numbers, tell which are prime and which are not.

Input

Input consists of (possibly, many) natural numbers $n \le 10^6$.

Output

For each n, tell if it is prime or not.

Observation

Use the Sieve of Eratosthenes.

Sample input

Sample output

9 is not prime 23 is prime 1 is not prime 10000 is not prime

Problem information

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