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The Virtual Learning Environment for Computer Programming

## Control C501A

P16425_en
Your task is to write a program that, for each $n$ given, prints the $n$ smallest first prime numbers.

## Input

The input is a sequence of natural numbers $n$ with $1 \leq n \leq 1000$.

## Output

For each $n$, print a line with the $n$ first prime numbers, in increasing order, and separated by a comma.

## Observation

Before reading any $n$, do a sieve of Eratosthenes to precalculate the first 1000 prime numbers. Knowing that 7919 is the prime number 1000 could be useful.

## Sample input

5
10
1
29

## Sample output

```
2,3,5,7,11
2,3,5,7,11,13,17,19,23,29
2
2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97,101,103,107,109
```


## Problem information

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