Prime Numbers in Linked List

Given positive integers one by one, create a single linked list from these numbers and calculate the number of prime numbers in the list.

Input Format

Including several lines, each contains a positive number x ($x \leq 10^6$) in the list.

-1 is a signal terminating the input (-1 is not included in the list).

The maximum input's lines are 10^5.

Output Format

Print the number of prime numbers in the single linked list.

Sample test

inputcopy
5 6 2 3 1 -1
outputcopy
3