

Simple array

Given an array of positive integers A , you need to find the number of primes in it and print it. A number is prime if and only if it has exactly 2 different positive divisors.

Input

The first line contains the integer N ($1 \leq N \leq 100$) - the number of numbers in the array A . The second line contains N positive integer numbers - the elements of the array A ($2 \leq A_i \leq 10000$).

Output

It is required to print the number of primes in array A .

Sample Input

```
10
20 3 4 5 6 7 8 9 12 14
```

Sample Output

```
3
```

Note

Try implementing the *isPrime*(n) function, which returns 1 when n is prime, and 0 otherwise.