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# Siddhu Prime Numbers 🖪

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Problem code: SIDPRIME

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As Dheeru wants to go out with his girlfriend now, he wants you to solve the following problem for him. You are given a Siddhu array consisting of N integers in which Ai denotes ith element of the array.

There are Q queries and each query consists two integers L and R. For each query output the number of Siddhu Primes in between L and R (both inclusive).

A Siddhu Prime number is defined as a number present in the Siddhu array and has only 2 positive divisors.

### Input

First line contains an integer N denoting the size of array.

Next line contains N space separated integers Ai of the array.

Next line contains an integer  ${\bf Q}$  denoting the number of queries.

Each of the next Q lines contain two space separated integers L and R as described in the problem.

# Output

For each query, output your answer in a single line.

### Constraints

- 1 ≤ N ≤ 10^6
- 1 ≤ Ai ≤ 10^6
- 1 ≤ Q ≤ 10
- 1 ≤ L ≤ R ≤ 10^6

# Example

Input:

431712

18

4 13 Output:

## **Explanation**

Query 1. The two numbers are 3 and 7

Query 2. The only Siddhu Prime number is 7.

Author: saurabhnit Date Added: 17-04-2016

Time Limit:

Source Limit: 50000 Bytes

ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbd, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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### Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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