



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR HELP 10 YEARS! &

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

D. CGCDSSQ

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Given a sequence of integers $a_1,...,a_n$ and q queries $x_1,...,x_q$ on it. For each query x_i you have to count the number of pairs (l,r) such that $1 \le l \le r \le n$ and $\gcd(a_l,a_{l+1},...,a_r) = x_i$.

 $\gcd(v_1, v_2, ..., v_n)$ is a greatest common divisor of $v_1, v_2, ..., v_n$, that is equal to a largest positive integer that divides all v_i .

Input

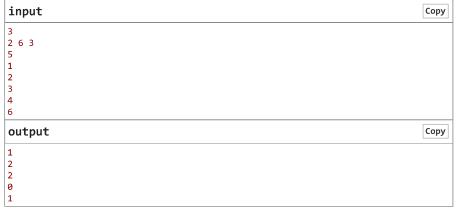
The first line of the input contains integer n, $(1 \le n \le 10^5)$, denoting the length of the sequence. The next line contains n space separated integers $a_1, ..., a_n$, $(1 \le a_i \le 10^9)$.

The third line of the input contains integer q, $(1 \le q \le 3 \times 10^5)$, denoting the number of queries. Then follows q lines, each contain an integer x_i , $(1 \le x_i \le 10^9)$.

Output

For each query print the result in a separate line.

Examples





output	Сору
14	
0	
2	
2	
2	
0	
2	
2	
1	
1	

Bayan 2015 Contest Warm Up

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++14 6.4.0 ▼

Choose file: Choose File No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

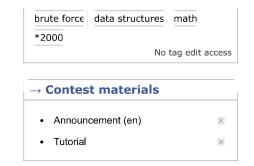
Submit

ightarrow Last submissions

Submission	Time	Verdict
77070332	Apr/17/2020 15:00	Accepted
77070217	Apr/17/2020 14:59	Wrong answer on test 9
77041195	Apr/17/2020 09:27	Wrong answer on test 7
77041106	Apr/17/2020 09:26	Wrong answer on test 7

ightarrow Problem tags

4/17/2020 Problem - D - Codeforces



Codeforces (c) Copyright 2010-2020 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Apr/17/2020 18:16:41^{UTC+5.5} (f3).

Desktop version, switch to mobile version.

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