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PRMQUER - Prime queries

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You are given a simple task.

Given a sequence A[i] with N numbers such that $1 \le i \le N$. You have to perform Q operations on a given set of numbers.

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① X

Operations:

- 1. A V 1, Add the value V to element with index l.
- 2. R a 1 r, Replace all the elements of sequence with index i such that $l \le i \le r$ with a.
- 3. Q 1 r, Print the number of elements with index i such that $I \le i \le r$ and A[i] is prime number and A[i] <= 10^7 .

No number in the sequence ever will exceed 10^9.

Constraints

- 1 <= N <= 10^5
- 1 <= Q <= 10^5
- V <= 10^3
- A[i] <= 10^8
- $a \le 10^7$, $1 \le l \le r \le N$.

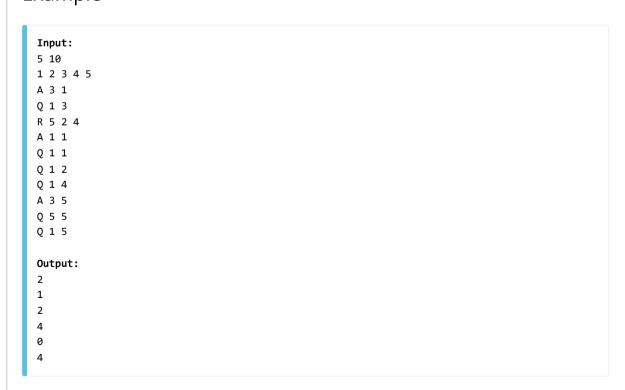
Input

First line contains N as number of sequence elements and Q as number of operations to be performed. Second line contains N initial elements of the sequence. After that each of the next Q lines contains one operation to be performed on the sequence.

Output

Print each value in newline as stated above.

Example



✓ Submit solution! (/submit/PRMQUER/)

Added by: Rishav Goyal

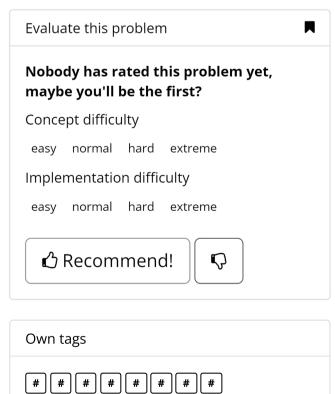
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Tag name



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