# **Butters Counting Problem**

Cartman got a really easy task. Butters just gave "N" numbers (Ai:  $0 \le i < N$ ) in non-decreasing order to Cartman, and then asked him to count the numbers that are smaller than or equal to "L". Cartman did the task easily. But Butters being a wicked kid, suddenly started giving him a huge amount of very large numbers. Cartman could not complete the task on time, so he wants your help to complete the task as fast as possible.

#### Input

First line will contain "N". The next line will contain "N" numbers (Ai :  $0 \le i < N$ ) in nondecreasing order. The next line will contain "Q", the number of queries asked by Butters. Each of the next "Q" lines contain "L", the query from Butters.

# Output

For each "L", output the count of numbers that are less than or equal to "L" on a separate line.

# Constraints

1 <= N <= 100000

0 <= Ai <= 10^9

1 <= Q <= 100000

0 <= L <= 10^9

### Example

#### Output:

0

3

1

7

10