

Roll Number



Suzy's old friend ,Lucy, has come to meet her while she is in school. However, Lucy is only aware of Suzy's roll number. Suppose A1, A2 ... AN is the max roll number of Students in 1st, 2nd... Nth rooms respectively. So, students with roll number 1 to A1 are in room 1,, similarly in 2nd room students having roll number A[1] + 1 to A[2] ... and students having roll number in Nth room will be from A[N-1] + 1 to A[N]. Help Lucy find out the room number where she can find Suzy.

Input Format

First line will contain N (No. of rooms). Next line will contain N space separated integers denoting Si, the number of students in ith room. Next line will contain Q (No. of queries). Then each next Q lines will contain Suzy's roll number I.

Constraints

$1 \leq N, Q \leq 10^5$

Output Format

For every query, print in a new line : the room number in which she can find Suzy.

Sample Input 0

```
2
2 3
2
2
4
```

Sample Output 0

```
1
2
```

Explanation 0

First room will have students with roll number : 1, 2 Second room will have students with roll number : 3, 4, 5

Sample Input 1

```
4
3 4 5 3
2
5
12
```

Sample Output 1

```
2
3
```

