

# Any Special Searching?

You are given an array  $A$  of size  $N$  and  $Q$  queries. For each query, you are given a target sum  $S$ . Your task is to find the minimum index  $i$  (1-based indexing) such that the sum of the elements from the first index to  $i$  (i.e.,  $A[1] + A[2] + \dots + A[i]$ ) is greater than or equal to  $S$ . If no such index exists, return -1.

**Note:** Don't forget to use fast I/o code in main function. `ios_base::sync_with_stdio(false); cin.tie(NULL);` Use this two line at the beginning of the main function. Use `'\n'` instead of `endl`;

## Input Format

The first line contains an integer  $N$ , the size of the array. The second line contains  $N$  space-separated integers representing the elements of the array  $A$ . The third line contains an integer  $Q$ , the number of queries. The next  $Q$  lines each contain a single integer  $S$ , representing the target sum for that query.

## Constraints

- $(0 < N \leq 100,000)$ ,
- $(0 \leq A[i] \leq 1,000,000,000)$ ,
- $(1 \leq Q \leq 120,000)$ ,
- $(0 \leq S \leq 10^{18})$

## Output Format

For each query, output a single integer representing the minimum index  $i$  such that the prefix sum from the first element to  $i$  is greater than or equal to  $S$ . If no such index exists, output -1.

## Sample Input 0

```
5
1 2 3 4 5
3
6
9
14
```

## Sample Output 0

```
3
4
5
```

## Sample Input 1

```
4
1 1 1 1
2
```

10  
5

### Sample Output 1

-1  
-1