



☆ Psychometric Testing



Psychometric testing is designed to find job-relevant information about an applicant that the traditional interview process wouldn't otherwise uncover. It typically includes a combination of online aptitude and personality tests that measure cognitive ability and personality traits.

A company has psychometric scores for n candidates, and it will only extend job offers to candidates with scores in the inclusive range given by $[lowerLimit, upperLimit]$. Given the list of scores and a sequence of score ranges, determine how many candidates the company will extend offers to for each range of scores.

Complete the *jobOffers* function in the editor below. It has three parameters:

1. An array of n integers, *scores*, denoting the list of candidate scores.
2. An array of q integers, *lowerLimits*, where each *lowerLimits_i* denotes the *lowerLimit* for score range i .
3. An array of q integers, *upperLimits*, where each *upperLimits_i* denotes the *upperLimit* for score range i .

The function must return an array of q integers where the value at each index i denotes the number of candidates in the inclusive range $[lowerLimits_i, upperLimits_i]$ that the company will extend offers to.

Input Format

Locked stub code in the editor reads the following input from stdin and passes it to the function:

The first line contains an integer, n , denoting the number of elements in *scores*.

Each line j of the n subsequent lines (where $0 \leq j < n$) contains an integer describing *scores_j*.

The next line contains an integer, q , denoting the number of queries.

Each line i of the q subsequent lines (where $0 \leq i < q$) contains an integer describing *lowerLimits_i*.

The next line contains an integer, q , denoting the number of queries.

Each line i of the q subsequent lines (where $0 \leq i < q$) contains an integer describing *upperLimits_i*.

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq scores_j \leq 10^9$
- $1 \leq q \leq 10^5$
- $1 \leq lowerLimits_i \leq upperLimits_i \leq 10^9$



the number of candidates in the inclusive range $[lowerLimits_i, upperLimits_i]$ that the company will extend offers to.



Sample Input 0

```
5
1
3
5
6
8
1
2
1
6
```

Sample Output 0

```
3
```

Explanation 0

Given $scores = [1, 3, 5, 6, 8]$, $lowerLimits = [2]$, and $upperLimits = [6]$, we perform the following $q = 1$ query:

0. Find all the scores in the inclusive range $[2, 6]$: there are three such candidates (i.e., scores 3, 5, and 6), so we store 3 in index 0 of our return array.

The function then returns the array $[3]$.

Sample Input 1

```
3
4
8
7
2
2
4
2
8
4
```

Sample Output 1

**Explanation 1**

Given $scores = [4, 8, 7]$, $lowerLimits = [2, 4]$, and $upperLimits = [8, 4]$, we perform the following $q = 2$ queries:

0. Find all the scores in the inclusive range $[2, 8]$: there are three such candidates (i.e., scores 4, 7, and 8), so we store 3 in index 0 of our return array.
1. Find all the scores in the inclusive range $[4, 4]$: there is one such candidate (i.e., score 4), so we store 1 in index 1 of our return array.

The function then returns the array $[3, 1]$.

YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed.
The timer will pause up to 90 seconds for the tour.

[Start tour](#)

Original code

Java 7



```
1 ▶ import ↔;
6
7 public class Solution {
8
9 ▼ /*
10  * Complete the function below.
11  */
12
13 ▼ static int[] jobOffers(int[] scores, int[] lowerLimits, int[]
upperLimits) {
14
15
16 }
17
18
19
20
21
22 19 ▶ public static void main(String[] args) throws IOException{↔}
62 }
```



(You can submit any number of times)



Test against custom input



5



[Download sample test cases](#)

The input/output files have Unix line endings. Do not use Notepad to edit them on windows.

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