Attack on Shiganshina

Problem

Submissions

Discussion Coming Soon

Türkçesi için tıklayınız

On a sunny and calm day in the Shiganshina region, the sudden collapse of the walls surrounding the region and the accompanying titan attack terrifies Eren, one of the inhabitants of the region. Titans are giants that are much taller and stronger than humans, so it is very difficult for humans to challenge them. People fighting against titans have to undergo intense military training. But some people support the attacks of the titans because of their different opinions. These people are also soldiers, working for the titans. There are also a few human soldiers with the titans attacking the region and assisting the attack. However, Eren is a fearless young man and will do his best to defend the place where he lives. Eren has the power to control several giants to help him, so he decides to take revenge on those who attacked Shiganshina with an army of several giants who he can control with the power he has, and his fellow soldiers. In the city center, two groups (which consists of titans and humans) are placed side by side in a row on opposite sides, vowing to destroy each other.

Eren wants to calculate the probability of winning this battle, and he finds a way to calculate it: For each warrior e_i in his own team, he finds the number of all warriors from the other team who is shorter than e_i. He keeps these calculations in order.

Find the number sequence that Eren has calculated.

Input Format

- The first line contains the number of warriors on the other team is t, and the number of warriors in Eren's team is e $(1 \leq t, e \leq 10^5)$.
- The second line contains the heights of the warriors from the other team.
- The third line contains the heights of the warriors from Eren's team.

Output Format

The number sequence that Eren has calculated which is the length of e.

Constraints

- $1 \leq t, e \leq 10^5$
- $1 \leq t_i, e_i \leq 10^9$

Sample Input 1

```
6 6
94 63 9 98 69 99
17 17 85 61 71 22
```

Sample Output 1

```
1 1 1 1 3 3
```

Explanation 1

Each element of the sequence represents the number of warriors from the other team that are shorter than the warriors from Eren's team.

For example:

- The number of warriors who are shorter than height 17 is 1
- The number of warriors who are shorter than height 17 is 1

- The number of warriors who are shorter than height 22 is 1
- The number of warriors who are shorter than height 61 is 1
- The number of warriors who are shorter than height 71 is 3
- The number of warriors who are shorter than height 85 is 3

C++ Bright **Memory Limit (kB) :** 256000 **Time Limit (s) :** 1

```
1  //Brace your keyboard
2  //inzva community built algoleague for every algorithm enthusiast hungry for self-improvement and fri
3
4  #include <bits/stdc++.h>
5
6  using namespace std;
7
8  int main() {
9  // write your code here
10
11     return 0;
12 }
13
```

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