# 范围查询(Range)

## **Descriptioin**

Let S be a set of n integral points on the x-axis. For each given interval [a, b], you are asked to count the points lying inside.

## Input

The first line contains two integers: n (size of S) and m (the number of queries).

The second line enumerates all the n points in S.

Each of the following m lines consists of two integers a and b and defines an query interval [a, b].

## Output

The number of points in S lying inside each of the m query intervals.

## **Example**

#### Input

```
5 2
1 3 7 9 11
4 6
7 12
```

### Output

```
0 3
```

## Restrictions

 $0 \le n, m \le 5 * 10^5$ 

For each query interval [a, b], it is guaranteed that a <= b.

Points in S are distinct from each other.

Coordinates of each point as well as the query interval boundaries a and b are non-negative integers not greater than 10<sup>7</sup>.

Time: 2 sec

Memory: 256 MB

# 描述

数轴上有n个点,对于任一闭区间 [a, b],试计算落在其内的点数。

## 输入

第一行包括两个整数:点的总数n,查询的次数m。

第二行包含n个数,为各个点的坐标。

以下m行,各包含两个整数:查询区间的左、右边界a和b。

## 输出

对每次查询,输出落在闭区间[a, b]内点的个数。

# 样例

见英文题面

## 限制

 $0 \le n, m \le 5 \times 10^5$ 

对于每次查询的区间[a, b],都有 $a \le b$ 

各点的坐标互异

各点的坐标、查询区间的边界a、b,均为不超过10^7的非负整数

时间: 2 sec

内存: 256 MB

UI powered by Twitter Bootstrap (http://getbootstrap.com/). Tsinghua Online Judge is designed and coded by Li Ruizhe. For all suggestions and bug reports, contact oj[at]liruizhe[dot]org.