Description   **My Submissions**   **Hints/Editorial**   **AC Submissions**   **My Notes (0)**

Good Numbers

🔖   **?** Ask Doubt

⏱ Time-Limit: 4 sec   🖊 Score: 100.00/100   Difficulty : ★★

💾 Memory: 256 MB   ✓ Accepted Submissions: 100 Relevant For: AZ-201   AZ-202

Description

There are *N* students and ith student likes all numbers in the range [l_i ,r_i], both inclusive. A number is good if it is liked by at least *K* students.

You are even *Q* queries. Each query consists of two numbers L, R. You have to find how many numbers in the range *[L,R]* is good.

Input Format

The first line of input contains three integers, *N*, *K* ($1 \le K \le N \le 1000000$), and *Q* ($1 \le Q \le 1000000$).

The next *N* lines contain two integers l_i and r_i ($1 \le l_i \le r_i \le 1000000$), describing that the i-th student likes all the numbers $[l_i, r_i]$.

The next *Q* lines contain *L* and *R*, ($1 \le L \le R \le 1000000$).

Output Format

For each query print how many numbers in the range *[L,R]* is good in a new line.

Sample Input 1

📋 Copy

```
10 3 10
1 5
2 7
3 9
1 5
3 8
4 10
7 10
8 8
5 5
6 7
1 5
3 8
4 9
3 10
2 6
3 9
7 7
5 5
8 8
3 7
```

C++14[GCC] ▾

🔄 📋 📤   Submit

1