



Утегенов Батырхан Елембетұлы [ADS-Lab-03]: Submit a solution

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Submit a solution for C-Patchwork Staccato I

Time limit: 4 s

Real time limit: 8 s

Memory limit: 256M

Problem C: Patchwork Staccato I

You are given array a ($1 \leq a_i \leq 10^9$) of length n ($1 \leq n \leq 100$) and q ($1 \leq q \leq 100$) queries. In query i you are given two pairs of segments l_1, r_1, l_2, r_2 : $1 \leq l_1 \leq r_1 \leq 10^9, 1 \leq l_2 \leq r_2 \leq 10^9$, find number of indices c ($1 \leq c \leq n$) for which one of the following conditions is satisfied: $l_1 \leq a_c \leq r_1$ or $l_2 \leq a_c \leq r_2$.

Input format

First line contains two integers n, q . The next q lines contain 4 integers l_1, r_1, l_2, r_2 .

Output format

Output q lines - answers to the queries.

Examples

Input

```
7 3
21 1 2 3 5 8 13
1 5 13 21
1 1 2 3
1 3 2 8
```

Output

```
6
3
5
```

Submit a solution

Language:

g++ - GNU C++ 11.4.0



File

Choose File

No file chosen

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Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
5262	893:19:43	1810	C	g++	OK	N/A	View	View

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[ejudge 3.10.3+ \(GIT 6da71ff82\) \(2023-08-02 06:59:26\)](#).
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