



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

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## Submit a solution for D-Patchwork Staccato II

Time limit: 6 s

Real time limit: 12 s

Memory limit: 256M

### Problem D: Patchwork Staccato II

You are given array  $a$  ( $1 \leq a_i \leq 10^9$ ) of length  $n$  ( $1 \leq n \leq 10^5$ ) and  $q$  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

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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
5263	893:19:55	1810	D	g++	OK	N/A	<a href="#">View</a>	<a href="#">View</a>

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