☆ Customer service capacity

At Booking.com our customer service team is an important contributor to customer satisfaction. During busy times, however, there might be more calls to customer service than the number of customer service executives can manage. Fortunately, we record data on that. We've collected information about all phone calls to our call centres for the past year.

Given that our current number of customer care agents is **X**. Determine how many more people we would need to hire, to make sure that our customers would not have to wait during peak hours (i.e. that we don't have more phone calls than we have customer service executives).

Input:
The first line contains the current number of customer service executives **X**.
The second line contains an integer **N**, which is the number of data points in the data set.
The next **N** lines are whitespace-separated pairs of timestamps (a timestamp is an integer that represents seconds since the epoch). On each line, the first time is the time when the call was started, and the second one is when that call ended.

Output:
A single integer, representing the number of additional customer service executives that we would need to employ, to cover the call volume during peak times. If the current coverage is already sufficient, then print 0.

Sample input:

```
1
3
1481122000 1481122020
1481122000 1481122040
1481122030 1481122035
```

Sample output:

```
1
```

Explanation:
The first call overlaps with the second call. The third call also overlaps with the second call. However, the first and the third call are not overlapping with each other. This

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YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour. Start tour

For help on how to read input and write output in Java 7, click here.

Original code | Java 7

```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8      public static void main(String args[] ) throws Exceptio
   {
9          /* Enter your code here. Read input from STDIN. Pri
   output to STDOUT */
10     }
11 }
```

Line: 1 Col: 1

Test against custom input

Run Code | Submit code & Continue

(You can submit any number of times)

Download sample test cases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*

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1

2

3

4