Contest Duration: 2025-05-31(Sat) 22:00 (http://www.timeanddate.com/worldclock/fixedtime.html?
iso=20250531T2100&p1=248) - 2025-05-31(Sat) 23:40 (http://www.timeanddate.com/worldclock/fixedtime.html?
iso=20250531T2240&p1=248) (local time) (100 minutes)   Back to Home (/home)

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C - Not All Covered   Editorial (/contests/abc408/tasks/abc408_c/editorial)   ● / 🇬🇧

Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

Problem Statement

In the AtCoder Kingdom, there are N castle walls numbered from 1 through N. There are also M turrets.

Turret i guards castle walls numbered from L_i through R_i.

When a turret is destroyed, the castle walls that were guarded by that turret are no longer guarded by that turret.

What is the minimum number of turrets that need to be destroyed so that at least one castle wall is not guarded by any turret?

Constraints

- $1 \leq N \leq 10^6$
- $1 \leq M \leq 2 \times 10^5$
- $1 \leq L_i \leq R_i \leq N \, (1 \leq i \leq M)$
- All input values are integers.

Input

The input is given from Standard Input in the following format:

```
N   M
L_1   R_1
L_2   R_2
⋮
L_M   R_M
```

$$
\begin{array}{cc}
N & M \\
L_1 & R_1 \\
L_2 & R_2 \\
\vdots & \\
L_M & R_M \\
\end{array}
$$

Output

Output the minimum number of turrets that need to be destroyed so that at least one castle wall is not guarded by any turret.

Sample Input 1   [Copy]

```
10 4
1 6
4 5
5 10
7 10
```

Sample Output 1   [Copy]

```
1
```

If turret 1 is destroyed, no turret guards castle wall 3. Also, if no turrets are destroyed, all castle walls are guarded by some turret. Therefore, output 1.

Sample Input 2   [Copy]

```
5 2
1 2
3 4
```

Sample Output 2   [Copy]

```
0
```

Since no turret guards castle wall 5, there already exists a castle wall not guarded by any turret without destroying any turrets. Therefore, output 0.

Sample Input 3

```
5 10
2 5
1 5
1 2
2 4
2 2
5 5
2 4
1 2
2 2
2 3
```

Sample Output 3

```
3
```

Rule (/contests/abc408/rules)   Glossary (/contests/abc408/glossary)

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2026-01-02 (Fri)
05:24:42 +11:00