Romo — ◐ ↪

CSES Problem Set

Movie Festival

TASK │ SUBMIT │ RESULTS │ STATISTICS │ TESTS

Time limit: 1.00 s   **Memory limit:** 512 MB

In a movie festival n movies will be shown. You know the starting and ending time of each movie. What is the maximum number of movies you can watch entirely?

Input

The first input line has an integer n: the number of movies.

After this, there are n lines that describe the movies. Each line has two integers a and b: the starting and ending times of a movie.

Output

Print one integer: the maximum number of movies.

Constraints

- $1 \le n \le 2 \cdot 10^5$
- $1 \le a < b \le 10^9$

Example

Input:
```
3
3 5
4 9
5 8
```

Output:
```
2
```

Sorting and Searching

...

Ferris Wheel	✓
Concert Tickets	-
Restaurant Customers	-
Movie Festival	-
Sum of Two Values	-
Maximum Subarray Sum	-
Stick Lengths	-
Missing Coin Sum	-

...

Your submissions