CSES Problem Set

Restaurant Customers

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

You are given the arrival and leaving times of n customers in a restaurant.

What was the maximum number of customers in the restaurant at any time?

Input

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

After this, there are n lines that describe the customers. Each line has two integers a and b: the arrival and leaving times of a customer.

You may assume that all arrival and leaving times are distinct.

Output

Print one integer: the maximum number of customers.

Constraints

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

Example

Input:
```
3
5 8
2 4
3 9
```

Output:
```
2
```

Sorting and Searching

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

Your submissions

2024-10-06 03:20:29 ✓
2024-02-14 12:36:00 ✓