

## Problem D. Aydan's Problem

**Time limit** 1000 ms

**Mem limit** 524288 kB

Ms. Aydan wants to attend various events. She has  $n$  events she wishes to attend. The start and end times of each event are known. Your goal is to find the maximum number of events Ms. Aydan can fully attend.

### Input

The first line will contain an integer  $n$ : the number of events she wants to attend.

After that, there are  $n$  lines, each describing one event. Each line contains two integers  $a$  and  $b$ : the start and end times of the event.

### Output

Print an integer: the maximum number of events Ms. Aydan can fully attend.

### Constraints

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

### Example

Input	Output
3 3 5 4 9 5 8	2

### Explanation

In this case, Ms. Aydan can fully attend only 2 events: the 1st and the 3rd events.