

# Royal Cultural Festival Scheduling

Time: 2s | Memory: 256 MB

## Problem Statement

During the grand cultural festival in Punakha, dozens of traditional performances are scheduled throughout the day — masked dances, musical performances, and rituals. However, the venue has only one central stage, meaning no two performances can occur at the same time.

The festival coordinator wants to maximize the number of performances that can be attended fully without overlap.

Two performances conflict only if one starts **STRICTLY** before the other ends. If performance A ends at time 5 and B starts at time 5, they do **NOT** conflict.

Your task is to help determine the maximum number of performances that can be scheduled without conflicts.

## Input Format

Line 1: integer  $N$  — number of performances.

Next  $N$  lines: integers  $S E$  — start and end time.

## Output Format

A single integer — maximum non-overlapping performances.

## Constraints / Notes

$1 \leq N \leq 2 \times 10^5$  |  $0 \leq S < E \leq 10^9$

Hint: Sort by end time. Greedily pick each performance whose start  $\geq$  last chosen end time.

## Sample Input

```
3
1 3
2 5
4 6
```

## Sample Output

```
2
```