

## **Assignment**

You are given a collection of  $n$  jobs. Each job  $J_i$  has a start time  $s_i$  and a finish time  $f_i$ . Each job requires a dedicated machine for processing for the entire duration of the job.

Write a C++ program to compute the minimum number of machines needed to process all the given jobs.

The first line of the input contains the number of jobs  $n$ . The next  $n$  lines contain the starting and ending times of each of the jobs.

Example Input-Output

### **Input:**

```
4
1 10
4 11
9 15
3 8
```

### **Output:**

```
3
```