Avurudu Sale

Problem | Submissions | Leaderboard

Bigbuy.lk is an emerging e-commerce platform in Sri Lanka. Currently they are in the process of announcing special avurudu sales on April 14 which would result in increased traffic to their website. To handle the sudden influx of traffic, the management has decided to use dedicated servers for each item going on sale. Bigbuy.lk is facing severe financial constraints due to covid, hence to reduce the cost, the traffic needs to be managed with minimal number of servers. 5 mins needed for each server to switch from current sale item to new sale item. So if a sale finishes at 10 20 and another sale starts at 10 25, then the same server can be used as they have a 5-minute time gap. But, the server doesn't take any time to handle the first sale item since those have been configured two days prior to the sale date. Write a program to effectively manage the servers.

Input Format

1st line: n to denote the number of items on sale
Next n lines: $hh\ mm\ HH\ MM$ where $hh\ mm$ is the starting time and $HH\ MM$ is the ending time of an item's sale (both inclusive).Both $hh\ mm$, $HH\ MM$ are represented in 24-hour format.

Constraints

1 <= n <= 1000
00 <=hh, HH <= 23
00 <= mm, MM <= 59

Output Format

Print the minimum number of servers required to manage the sales.

Sample Input 0

```
4
00 00 11 11
00 00 10 11
11 17 23 17
12 12 12 50
```

Sample Output 0

```
2
```

Sample Input 1

```
4
00 00 11 11
00 00 10 11
10 14 23 17
12 12 12 50
```

Sample Output 1

3

Contest ends in 2 hours

Submissions: 167
Max Score: 100
Difficulty: Hard

Rate This Challenge:

More

Current Buffer (saved locally, editable)

Python 3

1

Upload Code as File

Test against custom input

Run Code

Submit Code