

DP-S018 (E047)Solved Challenges **0/1**[Back To Challenges List](#)**Browsing Center Computers****ID:11159 Solved By 449 Users**

In a browsing center, the owner accepts the next day's browsing slot booking from **N** customers via internet. Each browsing slot contains the **start time** and the **end time** in 24-hr format. The browsing center owner must have at least **M** computers so that no one is waiting. The browsing slot of N customers are passed as the input. The program must print the minimum number of computers **M** so that no one is waiting in the center.

Boundary Condition(s): $1 \leq N \leq 10^5$ **Input Format:**

The first line contains N.

The next N lines, each containing the start time and the end time of a browsing slot.

Output Format:

The first line contains M.

Example Input/Output 1:

Input:

```
6
9:00 11:00
9:30 10:30
9:30 12:00
9:45 13:00
11:00 15:00
10:00 14:00
```

Output:

```
5
```

Explanation:

The browsing center owner must have at least **5** computers so that no one is waiting.At **10:00**, there must be at least **5** computers.**Example Input/Output 2:**

Input:

```
6
9:00 15:00
10:00 10:30
11:00 13:00
13:00 14:00
14:30 15:00
14:30 16:00
```

Output:

```
3
```

Max Execution Time Limit: 100 millisecs

Ambiance

Python3 (3.x) ▾



Reset

```
1  N = int(input())
2  start = []
3  end = []
4  for index in range(N):
5      temp = input().strip().split()
6      start.append(temp[0])
7      end.append(temp[1])
8
9      hr,m = map(int,start[index].split(":"))
10     start[index] = hr*60 + m
11
12     hr,m = map(int,end[index].split(":"))
13     end[index] = hr*60 + m
14
15 start.sort()
16 end.sort()
17
18 computers=0
19
20 first=0
21 last=0
22
23 while(first<N and last<N):
24     currReq = (first-last)+1
25     if(currReq>computers):
26         computers = currReq
27
28     if(start[first]<end[last]):
29         first+=1
30     else:
31         last+=1
32     while(first<N and last<N and start[first]>=end[last]):
33         last+=1
34
35 print(computers)
36
37
38
39
40
41
```

Code did not pass the execution



7

Private (Hidden) Test Cases Failed.

9 Passed

7 Failed

MEM: 0.09765625 MB CPU: 0.01

Save

Run

☐ Run with a custom test case (Input/Output)