

Time for Activities

Marge is going on a skiing vacation at a fancy resort. The resort has many activities listed for the day, and she wants to do as many as possible! The problem is, some of the activities overlap with each other. Each activity has a start time and a finish time. She of course can only do one activity at a time, so if the times overlap between two she has to choose.

Marge is very quick about getting from one activity to the next, so if one activity ends at 2:00, and another starts at 2:00, she can do both. They just can't actually overlap.

Input

The first line of input gives the total number of activities for the day, N . Following that are N lines, each giving the start time and end time of an activity. These will be given as integers in 2400 based time. So the time 1015 is 10:15 AM, and the time 1730 is 5:30 PM. Following the start and end times is the name of the activity.

Output

Output should consist of a single integer giving the total maximum number of activities Marge can complete that day.

Sample Input

```
9
615 700 Morning Powder Run
700 830 Beginner Lesson
745 900 Avalanche Safety Class
900 1000 Cross-Country Ski Tour
930 1100 Slalom Race
1100 1200 Snowshoe Hike
1130 1230 Tubing Session
1200 1245 Hot Cocoa Tasting
1730 1900 Night Skiing
```

Sample Output

6