
6. Life vs. School

Program Name: Life.java

Input File: life.dat

James is having problems meeting his obligations with his girl friend. Sometimes, he makes a date with her only to find out later that he has a class that meets at the same time. He knows that, to keep his girl friend happy, he cannot miss his date with her. He also knows that, in order to graduate, he cannot afford to miss his classes. You are to write a program that will determine whether his class will conflict with his date or not. There will be a conflict if any part of his date will overlap any part of one of his classes. For example, a date that ends at 08:30 would conflict with a class that starts at 08:30.

Input

The first line of input will contain a single integer n that indicates the number of possible days that James may have conflicts in his schedule. For each day, there will be two lines of data. The first line of the two will contain two times that indicate the start and stop time of the date with his girlfriend. The second line of the two will contain one or more pairs of start and stop times of his classes. James has 1, 2 or 3 classes in a day. All times will be in the form of $hh:mm$ of a 24 hour clock and will be separated by a space. Class times will be in order of when they meet.

Output

For each class on each day, you will determine if James has a conflict. For each class that he has a conflict, you will print `DAY #x CONFLICT WITH CLASS #y` where x is the number of the day in question and y is the number of the class that he would miss. If he does not have a conflict for a given class, you will print nothing.

Example Input File

```
3
08:45 11:15
06:45 08:00 12:00 03:00
10:30 13:30
08:30 10:30 13:45 14:45 16:45 18:46
14:00 17:00
10:45 11:45 15:00 16:00 16:45 18:15
```

Example Output to Screen

```
DAY #2 CONFLICT WITH CLASS #1
DAY #3 CONFLICT WITH CLASS #2
DAY #3 CONFLICT WITH CLASS #3
```