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## **TATA CONSULTANCY SERVICES**

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**Coding Arena** 

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## **Coding Arena**

The Leaders of all countries around the world need to gather in order to sign the World Peace Summit.

Time Left

05

<C\*deVita/>

**Rules & Regulations** 

**Problem: Common Schedule** 

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D

F F

# Today is the D-Day. Given N countries and the schedule of their leaders for next 24 hours, your task is to find a maximum time slot such that all leaders are available during that period. Input Format:

The first line contains N, the number of countries

The following line contains:

- 1. I unique id of the leader
- 2. [A,B) the time slot when the leader is busy i.e. including time A, but excluding time B

End of input is given by "-1"

### Note:

- Each country will have only one representative
- Time slot [A, B) will be in the format HH:MM

### **Output Format:**

Print 3 lines each with a time slot [A, B)

- 1. Line 1 should contain Among the best free schedules of every leader print the maximum free time slot in the
- 2. Line 2 should contain Among the best free schedules of every leader print the minimum free time slot in the first line
- 3. Line 3 should contain The maximum common duration at which all the leaders will be available.

Start time and end time of the slot should be in the HH:MM format.

In the case if there is a tie between two time slots, due to length of the slot, prefer the one which appears earlier on the clock

### Constraints:

1 <= N <= 5000

1 <= I <= N

00:00 <= A <= B <= 24:00

## Sample Input and Output

SNo.	Input	Output
1	1 23:02 23:59	09:45 23:02 12:35 18:45 12:35 15:15

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.