Daily Challenge **Happy Coding from necse** SkillRack

## Train - Passengers Waiting Time

The program must accept the **departure time** of a **train** (in 24-hr format HH:MM) at a station S as the input. The **name** and the **arrival time** (in 24-hr format HH:MM) of **N persons** to the station S are also passed as the input to the program. The program must print the **name** of each person and his/her **waiting time** (in minutes) at the station S as the output. If a person arrives at the station after the train departs, then the program must print the **name** of the person followed by **-1** as the output.

**Boundary Condition(s):**
1 <= N <= 50
1 <= Length of each person's name <= 15

**Input Format:**
The first line contains the departure of a train.
The second line contains N.
The next N lines, each contains the name of a person and the arrival time to the station separated by a space.

**Output Format:**
The first N lines, each contains the name of a person followed by his/her waiting time at the station S or -1 based on the given conditions.

**Example Input/Output 1:**
Input:
10:53
7
Rajesh 09:15
Catherine 10:05
Anu 10:17
Pravin 09:52
Deepa 10:53
Mambo 10:33
Anita 11:00

Output:
Rajesh 98
Catherine 48
Anu 36
Pravin 61
Deepa -1
Mambo 20
Anita -1

Explanation:
The **departure time** of the **train** is **10:53**.
The value of **N** is **7**.
Rajesh 98: **Rajesh** arrives at the station at **09:15**. His waiting time in the station is 98 minutes.
Catherine 48: **Catherine** arrives at the station at **10:05**. Her waiting time in the station is 48 minutes.
Anu 36: **Anu** arrives at the station at **10:17**. Her waiting time in the station is 36 minutes.
Pravin 61: **Pravin** arrives at the station at **09:52**. His waiting time in the station is 61 minutes.
Deepa -1: **Deepa** arrives at the station at **10:53** which is after the train departs.
Mambo 20: **Mambo** arrives at the station at **10:33**. His waiting time in the station is 20 minutes.
Anita -1: **Anita** arrives at the station at **11:00** which is after the train departs.

**Example Input/Output 2:**
Input:
16:25
6
Ramesh 16:30
Jhanvi 16:11
Bhuvana 16:25
Kavin 16:24
Anu 16:18
Hector 16:29

Output:
Ramesh -1
Jhanvi 14
Bhuvana -1
Kavin 1
Anu 7
Hector -1

**Max Execution Time Limit: 50 millisecs**

Ambiance

Java ( 12.0)

```java
import java.util.*;
public class Hello {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        String dep[] = sc.nextLine().split(":");
        int n = sc.nextInt();sc.nextLine();

        int start_hour = Integer.parseInt(dep[0]);
        int start_min = Integer.parseInt(dep[1]);


        while(n-->0){
            String person[] = sc.nextLine().split(" ");
            String time[] = person[1].split(":");

            System.out.print(person[0]+" ");

            if(Integer.parseInt(time[0])>start_hour){
                System.out.println(-1);
                continue;
            }else if(Integer.parseInt(time[0])==start_hour
                && Integer.parseInt(time[1])>=start_min){
                    System.out.println(-1);
                    continue;

            }else{
                int res = 0;

                int person_hr = Integer.parseInt(time[0]);
                //res+= (start_min - Integer.parseInt(time[1]));

                if(person_hr!=start_hour){
                    res+= start_min;
                    res+= 60 - Integer.parseInt(time[1]);
                }else{
                    res+= start_min - Integer.parseInt(time[1]);
                }

                person_hr++;

                if(person_hr<start_hour){
                    res+= (start_hour - person_hr)*60;
                }
                System.out.println(res);
            }
        }


    }
}
```

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**Code did not pass the execution**

**Input:**

```
10:53
7
Rajesh 09:15
Catherine 10:05
Anu 10:17
Pravin 09:52
Deepa 10:53
Mambo 10:33
Anita 11:00
```

**Expected Output:**

**Rajesh 98**
**Catherine 48**
**Anu 36**
**Pravin 61**
**Deepa -1**
**Mambo 20**
**Anita -1**

**Your Program Output:**

**Rajesh- 98**
**Catherine- 48**
**Anu- 36**
**Pravin- 61**
**Deepa- -1**
**Mambo- 20**
**Anita- -1**

Save Run