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Comparing Times

by abhi98khandelwal

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Given two times, t_1 and t_2, in the 12-hour AM/PM format, we want to know which time occurs first during a day. For example, if t_1 is `08:02PM` and t_2 is `06:51AM`, then t_2 occurs before t_1.

Solve q queries where each query consists of some t_1 and t_2. For each query, print `First` if t_1 occurs before t_2; otherwise, print `Second`.

Note: The day starts at `12:00AM` (midnight) and ends at `11:59PM`. The time `12:00PM` denotes noon (midday).

Input Format

The first line contains an integer denoting q (the number of queries).
Each of the q subsequent lines contains two space-separated strings describing the respective values of t_1 and t_2.

Constraints

- $1 \leq q \leq 10^5$
- $t_1 \neq t_2$

Output Format

For each query, print `First` if t_1 occurs before t_2; otherwise, print `Second`.

Note: If using the given code stubs, complete the function so that it returns the appropriate string.

Sample Input 0

```
2
10:19PM 02:49AM
08:49AM 09:10AM
```

Sample Output 0

```
Second
First
```

Explanation 0

We perform the following $q = 2$ queries:

1. t_1 is `10:19PM` and t_2 is `02:49AM`. Because *AM* always occurs before *PM*, we know that t_2 occurs earlier and we print `Second`.

2. t_1 is `08:49AM` and t_2 is `09:10AM`. Both times occur during the *AM* (first half of the day), so we compare their hours. Because $08 < 09$, we know that t_1 occurs earlier and we print `First`.

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Contest ends in a day

Submissions: 1560

Max Score: 15
Difficulty: Easy

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C#

```csharp
1  using System;
2  using System.Collections.Generic;
3  using System.IO;
4  using System.Linq;
5  class Solution {
6
7      static string timeCompare(string t1, string t2){
8          // Complete this function
9          DateTime d1 = DateTime.Parse(t1);
10         DateTime d2 = DateTime.Parse(t2);
11
12         return d1.CompareTo(d2) == 1 ? "Second" : "First";
13     }
14
15     static void Main(String[] args) {
16         int q = Convert.ToInt32(Console.ReadLine());
17         for(int a0 = 0; a0 < q; a0++){
18             string[] tokens_t1 = Console.ReadLine().Split(' ');
19             string t1 = tokens_t1[0];
20             string t2 = tokens_t1[1];
21             string result = timeCompare(t1, t2);
22             Console.WriteLine(result);
23         }
24     }
25 }
26
```

Line: 12 Col: 9

⬆ **Upload Code as File**   ☐ Test against custom input   Run Code   Submit Code

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