神奇的二月二十九

众所周知的党某一年的二月有二十九号时那么这年就算润年.

很幸运的是, 某位小学第恰好正在了那一天,现在这个小学弟正在为今年是他的第几个生日而苦恼(假设今年是润年)

现在给你两个日期,请你计算在这个日期之间有多少个润年,并输出

Input

第一行输入一个T,表示测试样例的个数

每一个测试样例包含两行,分别三两个日期,格式为**"month day, year"**

Ouput

输出答案,具体格式参见样例

|  |  |
| --- | --- |
| **Sample Input** | **Output for Sample Input** |
| 4  January 12, 2012  March 19, 2012  August 12, 2899  August 12, 2901  August 12, 2000  August 12, 2005  February 29, 2004  February 29, 2012 | Case 1: 1  Case 2: 0  Case 3: 1  Case 4: 3 |

**Sample Input**

4

January 12, 2012

March 19, 2012

August 12, 2899

August 12, 2901

August 12, 2000

August 12, 2005

February 29, 2004

February 29, 2012

**Output for Sample Input**

Case 1: 1

Case 2: 0

Case 3: 1

Case 4: 3