

Brad's Birth Days

Filename: birthdays

The Problem

Your friend Brad recently realized that there are some people in the world who have been alive for a relatively large number of years but have had surprisingly few birthdays; it seems he has just now discovered the magic of leap years. Brad now believes birthdays are illogical ways to measure someone's age and instead thinks the number of days they've been alive is a lot more accurate. He's been wondering in his head for a few days how old he would be and how many birthdays he would have based on varying combinations of possible birth dates and current dates and you've decided to write a program to help him process a large number of these via computer rather than manually.

Note that in order to solve this problem, you need to know how leap years are officially defined. Namely, all years divisible by 4 are leap years except for those years which are divisible by 100 but not 400. For example, 1600 and 2000 were leap years, but 1700, 1800 and 1900 were NOT leap years. Also, note that we ONLY count birthdays if the true day occurs. Thus, if Brad is born on February 29th, we only count subsequent February 29ths as his birthdays.

Note: There are 31 days in January, March, May, July, August, October and December. There are 30 days in April, June, September and November. There are 28 days in February in non-leap years and 29 days in February on leap years.

The Input

The beginning of the input file will consist of a single integer n representing how many "birthday cases" you will solve. The next $2n$ lines represent n pairs of birth dates and current dates, all in separate month-day-year integers. For example, the first line of a pair might read "11 5 2001", representing November 5th, 2001 as the birth date and the second line of the pair could be "9 4 2008", meaning that the current date is September 4th, 2008. You can safely assume that the current date will never be before Brad's birth date. Also, no dates in the input file will come before the year 1601 or after the year 3000.

The Output

For every pair of birth and current dates you process, you must calculate the number of days Brad has been alive (assuming he was born on the birth date specified) and the number of birthdays he has had. (For example, with the above sample dates, Brad would be 2,495 days old and have had 6 birthdays.)

Follow the format of the Sample Output shown on the following page for outputting each of these results.

Separate the output for each case with a blank line.

Sample Input

3
1 1 2000
4 1 2000
10 31 1995
10 30 2005
10 31 1995
10 31 2005

Sample Output

Brad was born on 1/1/2000.
It is now 4/1/2000.
Brad is now 91 days old and he has had 0 birthdays.

Brad was born on 10/31/1995.
It is now 10/30/2005.
Brad is now 3652 days old and he has had 9 birthdays.

Brad was born on 10/31/1995.
It is now 10/31/2005.
Brad is now 3653 days old and he has had 10 birthdays.