

The Mystery of Sky

Problem Description

Stark is a 10 year old kid and he loves stars. So, he decided every day he will capture a picture of a sky. After doing this for many days he found very interesting observations.

Every day the total number of stars in the sky is same as days completed for a calendar year. He noticed, on Saturday's and Sunday's that there are no stars in the sky. Stark's camera does not have wide angle capture feature so he could only capture maximum of 50 stars at a time. So, he assumed that there are only 50 stars in the sky that day. Also, the camera discharges every 4th day and he is not be able to click any picture that day. So, let's say, if the first day of calendar (01/01/0001) starts on a Monday then on Thursday he can't click any pictures. Then resuming on Friday, he can take pictures until Sunday, but can't take picture on Monday, followed by downtime on Friday, then Tuesday, then Saturday etc. When the camera discharges he considers 0 stars that day.

You are his programmer friend and want to help him. You need to write a code which will tell him on a particular date how many stars Stark's camera was able to click.

You can assume Stark has an ancient camera and your first input will be the day for date (01/01/0001) and then followed by any date on which Stark wants to find out the number of stars in the sky.

Input Format:

Every line of input will contain a Day at date 01/01/0001 in dd/mm/yyyy format followed by a Date in the same format (on which we have to count the stars)

Output Format:

For valid Input

Count of the number of stars in the sky on the given date

For Invalid Input

Print "Invalid Date" for invalid date

Print "Invalid Day" for invalid day

Sample Input and Output

Sr No.	Input	Output	Explanation
1	Monday 30/02/1990	Invalid Date	
2	Thursday	Invalid Day	
3	Wednesday 24/01/2056	24	Its 24 th day of the year and neither is Saturday/Sunday nor has the camera discharged on this day.