**11. The Hour is Upon Us**

**Program Name: Hour.java Input File: hour.dat**

The King and his Knights are beginning to get impatient in their quest. They have begun going to different psychics to request when they will find the Holy Grail. However, they only answer in a number of days. Help the King and the Knights interpret this by turning it into a date.

Input

An Integer N representing the number of data sets to follow. Each data set will have the date they ask the psychic followed by the number of days the psychic says they will find the Holy Grail.

Output

The day of the week and the date that they will find the Holy Grail. (according to the Psychic)

**Assumptions**

The psychic will not answer with a number greater than 2^31- 1

Example Input File

5

10/12/1993 1

12/31/1993 1

1/1/1001 30

2/1/523 1000000000

2/28/1000 1

Example Output To Screen

Wed 10/13/1993

Sat 1/1/1994

Fri 1/31/1001

Tue 2/5/2738430

Thu 2/29/1000