4306   Trip to Mars

In the year 2048 the IT community in Mars is planning to send exploration trips to find new galaxies. In order to be eligible, astronauts need to be member of the Galactic Training Program (GTP). In order to take a training course the astronaut must complain with two requirements. First the astronaut must at least have 180 days as member of the GTP, and he must have an "A" (Alfa) certification. If both requirements are met the astronaut is accepted, in other cases the astronaut is not accepted to take the training course. Your task is to read the astronauts information and determine which astronauts are accepted and assign them a number starting in 1. Do these for each group and simulation date provided. Dates are in the format '$DD/MM/YY$'. Remember that February is a special month with 28 days and ounces every four years it has 29 days.

Input

The first line of the input defines how many simulations n you need to run. Following this you will find n groups, the first element being the date of the simulation follow by the list of astronauts. For each astronaut you will find the date of enrollment to the GTP, his name and his certification. Certifications are represented with one alphabet character and astronauts only have one certification at any time. The three elements of each line are separated by a space.

Output

For each simulation display a blank line, the date in the next line and one line for each astronaut indicating if he is accepted (or denied) and his acceptance number.

Sample Input

```
2
25/09/08
12/02/08 Juan Jimenez A
06/08/08 Martha Martinez B
09/03/08 Raul Ramirez A
03/10/08
20/08/08 Maria Gonzalez A
```

Sample Output

```
Current date 25/09/08
Accepted Juan Jimenez 1
Denied Martha Martinez
Accepted Raul Ramirez 2

Current date 03/10/08
Denied Maria Gonzalez
```