Months

Bibi miss her favourite event. Luckily she know that the event will open again in the next X month(s). Help Bibi by creating a program that help her in what month the event will open again.

All the twelve months in Bibi's calender are named using their usual English names: January, February, March, April, May, June, July, August, September, October, November, December.

Format Input
The first line of input consist integer T indicating the number of the test cases. The next T line consist of the name of the current month and integer X, the number left until the appearance of the event.

Format Output
Print 'Case #T: ' and the name of the month in which the continuation of the event will appear.

Constraints
1 <= T <= 2,000
1 <= N <= 100,000

Sample Input	Sample Output
2 November 3 May 24	Case #1: February Case #2: May