Problem D. BIRTHDAY GRAPH

Time Limit 5 seconds

Problem Description

Everyone loves to be celebrated on their birthdays. Birthday celebration can encourage positive social interaction among co-workers, foster friendship among classmates or even strengthen bond between families.

Birthday graph can be display in many forms. It can a creative drawing consists of cupcakes, balloons, candles with names, or it can be in the form of simple bar chart to indicate the birthday frequency for the month.

Birthday graph apps will come handy to tabulate birthdates by month especially for a large group. Your task is to write a program that reads a list of birthdates and display the birthday graph as shown in the sample output below.

Input

The input consists of a few test cases. For each test case, the first line of input is a positive integer N ($N \leq 100$) which indicates the number of data in the test case. Each of the following N lines contains a valid date representing birthdays formatted as dd mm yyyy. Input is terminated by a test case where N is 0.

Output

For each test case, output a line in the format "Case #x:" where x is the case number (starting from 1), follow by the monthly birthday graph as shown in the sample output.

Sample Input Output

Sample Input	Sample Output
15 26 06 2007 27 09 2012 08 08 1995 02 01 2008 07 04 1999 25 10 2006 26 04 1995 09 02 2006 06 01 2010 05 02 2012 07 01 2014 12 05 2009 22 04 1997 24 08 2005 05 05 2006 10 15 12 2000 13 10 1997 29 06 1998 19 06 1996 03 01 1997 05 11 2000 18 02 1999 12 05 2000 29 11 1995 22 04 1998 0	Case #1: Jan:*** Feb:** Mar: Apr:*** May:** Jun:* Jul: Aug:** Sep:* Oct:* Nov: Dec: Case #2: Jan:* Feb:* Mar: Apr:* May:* Jun:** Jul: Aug: Sep: Oct:* Nov:** Dec:*