

## Frequency

Jojo loves to give Bibi array of character. Because Bibi loves to make various of sentences, every array of character is divided into a single character. Now after dividing the array of character, Bibi is confuses because there are too many word. Help Bibi by printing the total of each character (Case insensitive = Upper Case and Lower Case are treated the same).

### Format Input

The input will consist of several lines contains a lot of numbers in **testdata.in** file. Input starts with an integer T which indicates the total of testcase. The next T line consists multiple array of character. Multiple array length does not exceed 1000 characters and the characters only contain uppercase and lowercase letter.

### Format Output

Output "Case #%d:" with 6 line total of each character with some formating (Character in Upper Case : total). Dont forget to print newline after testcase. Please refer the sample output for clarity.

### Constraints

1 <= T <= 10

Sample Input (testdata.in)	Sample Output (standard output)
<pre>3 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcdefghij klmnopqrst uvwxyz AaBbCcDdEe FfGgHhIiJj</pre>	<pre>Case #1: A : 1, B : 1, C : 1, D : 1, E : 1 F : 1, G : 1, H : 1, I : 1, J : 1 K : 1, L : 1, M : 1, N : 1, O : 1 P : 1, Q : 1, R : 1, S : 1, T : 1 U : 1, V : 1, W : 1, X : 1, Y : 1 Z : 1  Case #2: A : 1, B : 1, C : 1, D : 1, E : 1 F : 1, G : 1, H : 1, I : 1, J : 1 K : 1, L : 1, M : 1, N : 1, O : 1 P : 1, Q : 1, R : 1, S : 1, T : 1 U : 1, V : 1, W : 1, X : 1, Y : 1 Z : 1  Case #3: A : 2, B : 2, C : 2, D : 2, E : 2 F : 2, G : 2, H : 2, I : 2, J : 2 K : 0, L : 0, M : 0, N : 0, O : 0 P : 0, Q : 0, R : 0, S : 0, T : 0 U : 0, V : 0, W : 0, X : 0, Y : 0 Z : 0</pre>

### Hint

A is equal to 0 + 'A' and careful of Space Character.