

## **Simple Encryption**

In cryptography, encryption is the process of encoding a message. In this problem you have to encrypt the given message in English alphabet. You have to change a letter to n-th alphabet after itself. In this case, the next character after 'z' is character 'a'. Any character other than alphabet ('a' to 'z') will remain unchanged.

## **Format Input**

The first line contain an integer T. The next T lines contain an integer N and message that you have to encrypt. It is guaranteed that the message will not be longer than 1000 characters.

## **Format Output**

For each test case, print "Case #X: Y" where X represents the number of test case and Y represents the encrypted message.

## **Constraints**

1 <= T <= 100 0 <= N <= 100

Sample Input 1	Sample Output 1
2 2 ABCDEFGHIJKLMNOPQRSTUVWXYZ 2 abcdefghijklmnopqrstuvwxyz	Case #1: CDEFGHIJKLMNOPQRSTUVWXYZAB Case #2: cdefghijklmnopqrstuvwxyzab

Sample Input 2	Sample Output 2
2	Case #1: ELQXV xqlyhuvlwb
3	Case #2: !@#\$%^&*()uaivxcymstewhjkln
BINUS university	
4	
!@#\$%^&*()qwertyuiopasdfghj	