	Perfect string

Siam likes to play with letters and numbers. One lazy evening he was trying to play with letters. He wrote down a string in his paper “BADDDA”. His brilliant mind noticed that he wrote an interesting string. Here the position on letter ‘B’ is 1 and it appears exactly one time in the string. The letter ‘A’ occurs 2 times and it’s position is 2. The position of D is 3 and it appears 3 times. So, he called it perfect string. Perfect string is a string where the 1-based index of the first occurrence of each letter is equal to the number of occurrences of that letter in the string.

To make this game more interesting, he firstly fixed the length of the string and tried to find the lexicographically smallest perfect string of that length containing only uppercase letters (‘A’ - ‘Z’) .

Now, you are given that length and your task is to find the lexicographically smallest perfect string. If there are no such perfect string of that length output “LOL” (without quotes)

Input:
Input starts with an integer T (≤ 10000), denoting the number of test cases. Each case starts with an integer N (1<=N<=10000), Where N denotes the length of the string.

Output:
For each case, print the case number first, then print the deserted output.
[See sample input output for more clarification]

Sample Input	**Sample Output**
3 1 2 3	Case 1 : A Case 2 : LOL Case 3 : ABB