BINUS UNIVERSITY
SCHOOL OF COMPUTER SCIENCE

Pattern

Jojo found an interesting pattern. When N is 3, the pattern will print the first letter, the second letter, the first letter, the third letter, the first letter, the second letter and lastly the first letter.

Here's the example :
1 : A
2 : ABA
3 : ABACABA
4 : ABACABADABACABA

Help Jojo by printing the pattern when N is known.

Format Input
The first input consist integer T, the number of the testcase. The next T line will consist of integer N.

Format Output
For each test case, print "Case #T: X" with T as the test case number and X is the code.

Constraints
1<=T<=10
1<=N<=15

Sample Input	Sample Output
2 3 5	Case #1: ABACABA Case #2: ABACABADABACABAEABACABADABACABA

Hint
This problem can be solved by recursive.