

Koko

Sharaf is a very kind man. He teaches his little brother programming. when his brother get a problem Accepted after getting N times wrong answer, Sharaf asked his brother to write the word "koko" N times Where the first letter in the statement will be an upper case letter "K", every two words will be separated with comma "," and the statement will end with a full stop ".".. Help Sharaf's brother to write the statement.

Input

Your program will be tested on one or more test cases. The first line of input will be a single integer T, the number of test cases ($1 \leq T \leq 100$). Followed by T lines, each line represents one test case, and consists of an integer N ($1 \leq N \leq 100$) which is the number of wrong answers.

Output

For each test case, print "Case_#i:_X" where "X" is the program output statement, "i" is the number of the test case (starting with 1) and "_" is a white space. Each output should be in a separate line.

Example

Input:

```
3
1
2
5
```

Output:

Case #1: Koko.

Case #2: Koko,koko.

Case #3: Koko,koko,koko,koko,koko.