

SOME MYSTERY HAPPENED

Somedays ago Leeana Learned about Fibonacci Number.And then her uncle gave her a task.

Task is:

>>>>Find the last two digits of Nth Fibonacci number.

The Fibonacci number sequence are: 0 1 1 2 3 5 8 13 21.....(0 based counting)

N.B: if there is single digit for 2 print it like that- (eg: 02),if dual then for 13 print it like that- (eg: 13).

Input

The first line of input contains an integer $T \leq 100$ denoting the no of test cases. Then T test cases follow. Each test case contains an integer $N \leq 10^{18}$.

Output

Print in each line of test case ("Case x: ans") where *x means case number. *ans means required ans of this problem.see sample input/output for exact format.

Example

Input:

3

0

7

10

Output:

Case 1: 00

Case 2: 13

Case 3: 55