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Game of Piles Version 1

Problem Code: GAMEOFPILES1

There are N piles where the i^{th} pile consists of A_i stones.

Chef and Chefina are playing a game taking alternate turns with **Chef starting first**.

In his/her turn, a player can choose any non-empty pile and remove ${\bf exactly}\ 1$ stone from it.

The game ends when **exactly** 1 pile becomes empty. The player who made the last move wins.

Determine the winner if both players play optimally.

Input Format

- ullet The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of multiple lines of input.
 - \circ The first line of each test case contains a single integer N denoting the number of piles.
 - \circ Next line contains N space-separated integers A_1,A_2,\ldots,A_N denoting the number of stones in each pile.

Output Format

For each test case, output CHEF if Chef wins the game, otherwise output CHEFINA.

Note that the output is case-insensitive i.e. CHEF, Chef, cHeF, and chef are all considered the same.

Constraints

- $1 \le T \le 1000$
- $1 \le N \le 10^5$
- $1 \le A_i \le 10^9$
- Sum of N over all test cases does not exceed $2\cdot 10^5$.

Sample Input 1 🖆





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Successful Solutions



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Explanation

Test Case 1: No matter which stone Chef removes, Chefina will remove the remaining stone from the same pile and make it empty.

Test Case 2: Since there is only 1 pile containing 10 stones, the game will last exactly 10 moves with last move made by Chefina.

Test Case 3: Chef can remove 1 stone from the first pile and thus make it empty.

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Time Limit: 1 secs

Source Limit: 50000 Bytes

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