# Problem J. J

Time limit 500 ms
Mem limit 1572864 kB
Code length Limit 50000 B
OS Linux

One of the simplest sorting algorithms, the Bubble Sort, can be expressed as (o-based array):

Now, given an array of N integers, you have to find out how many swap opeartions occur if the Bubble Sort algorithm is used to sort the array.

### Input

Input begins with a line containing an integer **T** (1<=**T**<=**100**), denoting the number of test cases. Then **T** test cases follow. Each test case begins with a line containing an integer **N** (1<=**N**<=**10000**), denoting the number of integers in the array, followed by a line containing **N** space separated 32-bit integers.

### **Output**

For each test case, output a single line in the format **Case X: Y**, where **X** denotes the test case number and **Y** denotes the number of swap operations needed modulo 10000007.

# Example

#### Input:

1

4 3 2 1 4

## Output:

Case 1: 3