

ACM-ICPC Indonesia National Contest 2016**Problem G****Beautiful Triple**

Time Limit: 2 seconds

In a sequence of N integers $A_{1..N}$, a triple $\langle a, b, c \rangle$ is considered beautiful if $A_a = A_c$ and $1 \leq a < b < c \leq N$.

For example, a sequence $A_{1..6} = \{3, 1, 3, 7, 3, 7\}$ has 6 beautiful triples:

- $\langle 1, 2, 3 \rangle - A_1 = 3, A_2 = 1, A_3 = 3$.
- $\langle 1, 2, 5 \rangle - A_1 = 3, A_2 = 1, A_5 = 3$.
- $\langle 1, 3, 5 \rangle - A_1 = 3, A_3 = 3, A_5 = 3$.
- $\langle 1, 4, 5 \rangle - A_1 = 3, A_4 = 7, A_5 = 3$.
- $\langle 3, 4, 5 \rangle - A_1 = 3, A_4 = 7, A_5 = 3$.
- $\langle 4, 5, 6 \rangle - A_4 = 7, A_5 = 3, A_6 = 7$.

Given a sequence of integers, determine how many beautiful triples are there in the sequence. Modulo the output with 1,000,000,007.

Input

The first line of input contains an integer T ($T \leq 50$) denoting the number of cases. Each case begins with an integer N ($1 \leq N \leq 100,000$) denoting the size of the integer sequence. The next line contains N integers A_i ($1 \leq A_i \leq 100,000$) representing the elements in A , for $i = 1..N$ respectively.

Output

For each case, output in a line "Case #X: Y" where X is the case number, starts from 1, and Y is the output for that particular case.

Sample Input

```
4
6
3 1 3 7 3 7
3
5 5 5
7
35 35 35 35 35 35 35
4
102 38 173 25
```

Output for Sample Input

```
Case #1: 6
Case #2: 1
Case #3: 35
Case #4: 0
```