13225   Incredible Sums

Given an array of integers a_0, a_1, ..., a_n, compute:

$$\left(\sum_{1 \le i < j < k < l \le n} a_i a_j a_k a_l \right) \bmod (10^9 + 7)$$

Input

A number of test cases (≤ 200), one per line, each with n ($0 \le n \le 100000$), followed by an array of n integers, each integer a_i ($0 \le a_i \le 1000000000$), on the next line.

Output

For each test case, output the answer on one line.

Sample Input

```
3
1 2 3
4
1 2 3 4
```

Sample Output

```
0
24
```