## Connecting Towns

Gandalf is travelling from Rohan to Rivendell to meet Frodo but there is no direct route from Rohan ( $\mathrm{T}_{1}$ ) to Rivendell ( $\mathrm{T}_{\mathrm{n}}$ ).

But there are towns $T_{2}, T_{3}, T_{4} \ldots T_{n-1}$ such that there are $N_{1}$ routes from Town $T_{1}$ to $T_{2}$, and in general, $N_{i}$ routes from $T_{i}$ to $T_{i+1}$ for $\mathrm{i}=1$ to $\mathrm{n}-1$ and 0 routes for any other $T_{i}$ to $T_{j}$ for $\mathrm{j} \neq \mathrm{i}+1$

Find the total number of routes Gandalf can take to reach Rivendell from Rohan.

## Note

Gandalf has to pass all the towns $\mathrm{T}_{\mathrm{i}}$ for $\mathrm{i}=1$ to $\mathrm{n}-1$ in numerical order to reach $\mathrm{T}_{\mathrm{n}}$.
For each $\mathrm{T}_{\mathrm{i}}, \mathrm{T}_{\mathrm{i}+1}$ there are only $\mathrm{N}_{\mathrm{i}}$ distinct routes Gandalf can take.

## Input Format

The first line contains an integer T , T test-cases follow.
Each test-case has 2 lines. The first line contains an integer $N$ (the number of towns).
The second line contains N-1 space separated integers where the $i^{\text {th }}$ integer denotes the number of routes, $\mathrm{N}_{\mathrm{i}}$, from the town $\mathrm{T}_{\mathrm{i}}$ to $\mathrm{T}_{\mathrm{i}+1}$

## Output Format

Total number of routes from $\mathrm{T}_{1}$ to $\mathrm{T}_{\mathrm{n}}$ modulo 1234567
http://en.wikipedia.org/wiki/Modular_arithmetic

## Constraints

$1<=\mathrm{T}<=1000$
$2<\mathrm{N}<=100$
$1<=\mathrm{N}_{\mathrm{i}}<=1000$

## Sample Input

```
2
3
13
222
```


## Sample Output

## 3 <br> 8

## Explanation

Case 1: 1 route from $T_{1}$ to $T_{2}, 3$ routes from $T_{2}$ to $T_{3}$, hence only 3 routes.
Case 2: There are 2 routes from each city to the next, at each city, Gandalf has 2 choices to make, hence $2 * 2 * 2=8$.

