## E. Sereja and Subsequences

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input

output: standard output

Sereja has a sequence that consists of n positive integers,  $a_1, a_2, ..., a_n$ .

First Sereja took a piece of squared paper and wrote all **distinct** non-empty non-decreasing subsequences of sequence a. Then for each sequence written on the squared paper, Sereja wrote on a piece of lines paper all sequences that *do not exceed* it.

A sequence of positive integers  $x = x_1, x_2, ..., x_r$  doesn't exceed a sequence of positive integers  $y = y_1, y_2, ..., y_r$ , if the following inequation holds:  $x_1 \le y_1, x_2 \le y_2, ..., x_r \le y_r$ .

Now Sereja wonders, how many sequences are written on the lines piece of paper. Help Sereja, find the required quantity modulo  $100000007 (10^9 + 7)$ .

## Input

The first line contains integer n ( $1 \le n \le 10^5$ ). The second line contains n integers  $a_1, a_2, ..., a_n$  ( $1 \le a_i \le 10^6$ ).

## **Output**

In the single line print the answer to the problem modulo  $100000007 \ (10^9 + 7)$ .

## **Examples**

Examples	
input	
1 42	
output	
42	

```
input
3
1 2 2
output
13
```

```
input
5
1 2 3 4 5

output
719
```