Coolguy gives you a simple problem. Given a **1**-indexed array, A, containing N elements, what will ans be after this pseudocode is implemented and executed? Print  $ans \% (10^9 + 7)$ .

#### **Input Format**

The first line contains N (the size of array A). The second line contains N space-separated integers describing A.

#### **Constraints**

•  $1 \le N \le 2 \times 10^5$ •  $1 \le A_i \le 10^9$ 

Note: A is 1-indexed (i.e.:  $A = \{A_1, A_2, \ldots, A_{N-1}, A_N\}$ ).

# **Output Format**

Print the integer result of  $ans \% (10^9 + 7)$ .

### **Sample Input**

3 3 2 1

## **Sample Output**

6

### **Explanation**

```
min(\ f(1,1),\ f(2,2)\ )=2 \ min(\ f(1,1),\ f(2,3)\ )=1 \ min(\ f(1,1),\ f(3,3)\ )=1 \ min(\ f(1,2),\ f(3,3)\ )=1 \ min(\ f(2,2),\ f(3,3)\ )=1
```

We then sum these numbers (2+1+1+1+1=6) and print 6~% ( $10^9+7$ ), which is 6.