ICPC Assiut University Community

Ramadan Kareem



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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

X. Kareem

time limit per test: 1 second memory limit per test: 256 megabytes

Given an array a of n elements. Calculate the following.

$$\sum_{i=1}^n \sum_{j=i}^n \max\left((\sum_{k=i}^j a_k), 0
ight)$$

Input

The first line of input contains an integer n ($1 \le n \le 10^5$)— the number of elements in the array.

The second line contains n space separated integers a_1, a_2, \ldots, a_n ($-10^9 \le a_i \le 10^9$)— elements of the array.

Output

Print the answer $modulo 10^9 + 7$.

Examples



ICPC Assiut Ramadan Marathons

Private

Participant



→ About Group



→ Group Contests



- Ramadan Marathon 2024
- Ramadan Marathon 2023
- Ramadan Marathon 2021
- Ramadan Marathon Juniors 2020
- Ramadan Marathon Newcomers 2020
- Ramadan Marathon Newcomers 2019
- Ramadan Marathon Juniors 2019
- Ramadan Kareem Marathon 2017

Ramadan Marathon 2024

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win **✓**

Choose file:

Choose File No file chosen

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