ICPC Assiut University Community
Ramadan Kareem

| 🇬🇧 🇷🇺
Ahmed_Essam_Yassin | Logout

HOME   TOP   CATALOG   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   EDU   API   CALENDAR   HELP

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.

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

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

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

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

Examples

input	Copy
5 1 2 3 4 5	

output	Copy
105	

input	Copy
3 3 -2 -2	

output	Copy
4	

→ Last submissions

Submission	Time	Verdict
283382306	Sep/28/2024 16:29	Accepted
283381946	Sep/28/2024 16:26	Accepted
283380364	Sep/28/2024 16:15	Wrong answer on test 3
283380020	Sep/28/2024 16:13	Wrong answer on test 3
259924628	May/07/2024 23:17	Accepted
259913301	May/07/2024 21:00	Accepted
259876177	May/07/2024 15:45	Accepted
259696756	May/06/2024 05:03	Accepted
259696677	May/06/2024 05:00	Wrong answer on test 7
259696139	May/06/2024 04:44	Wrong answer on test 1