Contest Duration: 2025-05-10(Sat) 08:00 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250510T2100&p1=248) - 2025-05-10(Sat) 09:40 (http://www.timeanddate.com/worldclock/fixedtime.html? Back to Home (/home) iso=20250510T2240&p1=248) (local time) (100 minutes)

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C - Sum of Product Editorial (/contests/abc405/tasks/abc405_c/editorial)



Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 300 points

Problem Statement

You are given a length-N integer sequence $A=(A_1,A_2,\ldots,A_N)$.

Compute the value of $\sum_{1 < i < j < N} A_i A_j$.

Constraints

- $2 < N < 3 \times 10^5$
- $1 \le A_i \le 10^4$
- All input values are integers.

Input

The input is given from Standard Input in the following format:

$$N = 0.025-05-10 \, (Sat) \ A_1 \quad A_2 \quad \dots \quad A_N = 0.059:17-04:00$$

Output

Output the answer.

Sample Input 1 Copy

3 4 2 3

Sample Output 1 Copy

26 Copy

We have $\sum_{1 \leq i < j \leq N} A_i A_j = A_1 A_2 + A_1 A_3 + A_2 A_3 = 4 \cdot 2 + 4 \cdot 3 + 2 \cdot 3 = 26.$

Sample Input 2

2 9 45

Sample Output 2 Copy

405 Copy

Sample Input 3 Copy

10 7781 8803 8630 9065 8831 9182 8593 7660 7548 8617

Sample Output 3 Copy

3227530139 Copy

Language

Python (CPython 3.11.4)

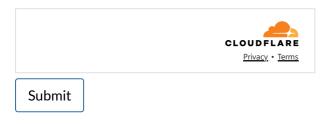
2025-05-10 (Sat)
Source Code 10:59:17 -04:00

5/10/25, 10:59 AM C - Sum of Product



* at most 512 KiB

^{*} Your source code will be saved as Main. extension.



#telegram)

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2025-05-10 (Sat) 10:59:17 -04:00