The 2020 ICPC Vietnam Northern and Central Provincial Programming Contest FPT University

November 1st, 2020

FPT UNIVERSITY

Problem M Supsub

Time Limit: 1 seconds Memory Limit: 512 Megabytes

Problem description

Given an array $a = a_1, a_2, ..., a_n$

The cost of the subsegment $a_l, a_{l+1}, \ldots, a_r$ is $\sum_{i=l}^r \sum_{j=l}^i a_j$.

Find the maximum cost of a subsegment of a.

Input

- The first line contains an integer: $n (1 \le n \le 10^5)$
- The second line contains *n* integers: $a_1 a_2 ... a_n (-10^9 \le a_i \le 10^9)$

Output

The maximum cost of a subsegment of a

Example:

Input	Output
7	24
1 3 -4 3 1 -1 6	



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Look back the scoreboard, are you on the TOP alone?