Problem M
Supsub

Time Limit: 1 seconds
Memory Limit: 512 Megabytes

Problem description

Given an array $a = a_1, a_2, \ldots, a_n$

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: $a_1\ a_2 \ldots a_n$ ($-10^9 \le a_i \le 10^9$)

Output

The maximum cost of a subsegment of a

Example:

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

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