Gold Collection

Ram is in Magicland. There are N treasures. Each treasure has one gold bar which has a value (This value can be positive or negative). He can start collecting gold bars from the ith treasure, collect continuously till the jth treasure.

Finally the value of gold with Ram is equal to the product of values of each bar that he has collected.

Help Ram maximise the value of gold he can collect from Magicland.

Input

N : Number of treasures

Next Line contains N integers A_1, A_2, …. A_n

Where A_i is the value of the gold bar in the ith treasure.

Constraints

1 <= N <= 100000

-10 <= A_i <= -10

Output

Maximum value of gold that Ram can collect.

Sample Input

4
2 3 -2 4

Output

6

Explanation

He can start at treasure 1 and collect till treasure 2.

Total value of gold = 2 * 3 = 6.