



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR HELP 10 YEARS! 11

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Milking cows

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

lahub helps his grandfather at the farm. Today he must milk the cows. There are n cows sitting in a row, numbered from 1 to n from left to right. Each cow is either facing to the left or facing to the right. When lahub milks a cow, all the cows that see the current cow get scared and lose one unit of the quantity of milk that they can give. A cow facing left sees all the cows with lower indices than her index, and a cow facing right sees all the cows with higher indices than her index. A cow that got scared once can get scared again (and lose one more unit of milk). A cow that has been milked once cannot get scared and lose any more milk. You can assume that a cow never loses all the milk she can give (a cow gives an infinitely amount of milk).

lahub can decide the order in which he milks the cows. But he must milk each cow exactly once. lahub wants to lose as little milk as possible. Print the minimum amount of milk that is lost.

Input

The first line contains an integer n ($1 \le n \le 200000$). The second line contains n integers $a_1, a_2, ..., a_n$, where a_i is 0 if the cow number i is facing left, and 1 if it is facing right.

Output

Print a single integer, the minimum amount of lost milk.

Please, do not write the %11d specifier to read or write 64-bit integers in C++. It is preferred to use the cin, cout streams or the %164d specifier.

Examples

Impac	4467
4 0 0 1 0	
output	Сору
1	
input	Сору
5 1 0 1 0 1	

Note

3

output

In the first sample lahub milks the cows in the following order: cow 3, cow 4, cow 2, cow 1. When he milks cow 3, cow 4 loses 1 unit of milk. After that, no more milk is lost.

Codeforces Round #225 (Div. 1)

Finished

→ Virtual participation

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data structures	greedy	*1600
		No tag edit access

→ Contest materials		
Announcement	×	
Tutorial (en)	×	

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Сору

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