

## Problem B. Chef and Subarray

Time limit 1000 ms  
Code length Limit 50000 B  
OS Linux

Read problems statements in [Mandarin Chinese](#) and [Russian](#).

Chef loves research! Now he is looking for subarray of maximal length with non-zero product.

Chef has an array  $A$  with  $N$  elements:  $A_1, A_2, \dots, A_N$ .

Subarray  $A_{ij}$  of array  $A$  is elements from index  $i$  to index  $j$ :  $A_i, A_{i+1}, \dots, A_j$ .

Product of subarray  $A_{ij}$  is product of all its elements (from  $i_{th}$  to  $j_{th}$ ).

### Input

- First line contains single integer  $N$  denoting the number of elements.
- Second line contains  $N$  space-separated integers  $A_1, A_2, \dots, A_N$  denoting the elements of array.

### Output

- In a single line print single integer - the maximal length of subarray with non-zero product.

### Constraints

- $1 \leq N \leq 100000$
- $0 \leq A_i \leq 10000$

### Sample 1

Input	Output
6 1 0 2 3 0 4	2

For the first sample subarray is: {2, 3}.

Sample 2

Input	Output
1 0	0

For the second sample there are no subbarays with non-zero product.

Sample 3

Input	Output
3 1 0 1	1

For the third sample subbarays is {1}, (the first element, or the third one).