# **Multiplicative Palindrome**

Given a sequence of N integers. Find two disjoint contiguous palindromic subsequences. Lets call them X and Y. Your task is to find X and Y such that product of their lengths is maximal possible.

# Input

First line will contain one integer N ( $1 \le N \le 10^6$ ). Second line will contain N integers representing a sequnce from the text of the task ( $0 \le A_i \le 2^*10^9$ ).

# Output

First and only line of output should contain only one integer, the maximum possible product from the text of problem.

# Example

#### Input:

2 1 1

#### Output:

1

## Input:

4

## 1122

Output:

4

# Input:

6 10 11 12 12 11 10

## Output:

4

## Input:

6 010101

## Output:

9