Signup and get free access to 100+ Tutorials and Practice Problems

Start Now

All Tracks > Algorithms > Searching > > Problem

# Help Fredo

Attempted by: 2580 / Accuracy: 78% / Maximum Score: 30 / ★★★☆ 37 Votes

Tag(s): Algorithms, Binary Search, Easy-Medium

PROBLEM EDITORIAL

Fredo is assigned a task today. He is given an array A containing N integers. His task is to update all elements of array to some minimum value x, that is, A[i] = x;  $1 \le i \le N$  such that product of all elements of this new array is strictly greater than the product of all elements of the initial array. Note that x should be as minimum as possible such that it meets the given condition. Help him find the value of x.

# **Input Format:**

The first line consists of an integer N, denoting the number of elements in the array. The next line consists of N space separated integers, denoting the array elements.

# **Output Format:**

The only line of output consists of value of x.

# **Input Constraints:**

 $1 \le N \le 10^5$ 

 $1 \leq A[i] \leq 10^{10}$  ; A[i] denoting an array element.

SAMPLE INPUT	Q <sub>0</sub>	<b>4</b>
5 4 2 1 10 6		
SAMPLE OUTPUT	O <sub>O</sub>	<b>4</b>
4		

# **Explanation**

IVE EVENITO