# **ICPC Assiut University Community**

# **Newcomers Training , Do Your Best**



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### G. Smallest Product

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

Ahmed is assigned a task today. He is given an array A contains of N integers.

His task is to update all elements of the array to some minimum value x, that is,  $A_i = x$ ;  $(1 \le i \le N)$ , such that the 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

The first line consists of an integer N ( $1 \le N \le 10^5$ ), denoting the number of elements in the array.

The next line consists of N space-separated integers  $A_i$   $(1 \le A_i \le 10^{10})$ , denoting the array elements

#### Output

The only line of output consists of value of x.

#### Example

input	Сору
5	
4 2 1 10 6	
output	Сору
4	

# <u>Assiut University Training -</u> <u>Newcomers</u>

#### **Public**

# Participant





# **→ Group Contests**



- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type Conditions)

### Sheet #10 (General Hard)

### **Finished**

**Practice** 



### → About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the <a href="link">link</a>.