



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP CALENDAR PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

# B. Uniqueness

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given an array  $a_1,a_2,\ldots,a_n.$  You can remove **at most one** subsegment from it. The remaining elements should be pairwise distinct.

In other words, at most one time you can choose two integers l and r ( $1 \le l \le r \le n$ ) and delete integers  $a_l, a_{l+1}, \ldots, a_r$  from the array. Remaining elements should be pairwise distinct.

Find the minimum size of the subsegment you need to remove to make all remaining elements

### Input

The first line of the input contains a single integer n ( $1 \le n \le 2000$ ) — the number of elements in the given array.

The next line contains n spaced integers  $a_1, a_2, \ldots, a_n$   $(1 \le a_i \le 10^9)$  — the elements of the array.

### Output

Print a single integer — the minimum size of the subsegment you need to remove to make all elements of the array pairwise distinct. If no subsegment needs to be removed, print 0.

# **Examples** input

3	
1 2 3	
output	Сору
оисрис	СОРУ
0	
input	Сору
4	
1 1 2 2	
output	Сору
2	
input	Сору
5	
1 4 1 4 9	

### **Note**

2

output

In the first example all the elements are already distinct, therefore no subsegment needs to be removed.

In the second example you can remove the subsegment from index 2 to 3.

In the third example you can remove the subsegments from index 1 to 2, or from index 2 to 3, or from index 3 to 4.

## Manthan, Codefest 19 (open for everyone, rated, Div. 1 + Div. 2)

#### **Finished**

**Practice** 



## → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Practice

Copy

Сору

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

# → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



GNU G++11 5.1.0 Language:

Choose file:

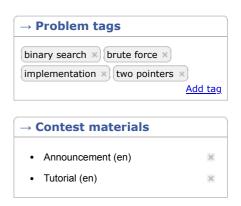
选择文件 未选择任何文件

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

ightarrow Last submissions		
Submission	Time	Verdict
59498542	Aug/26/2019 03:57	Accepted
<u>59498519</u>	Aug/26/2019 03:56	Wrong answer on test 5
<u>59498503</u>	Aug/26/2019 03:55	Compilation error





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Desktop version, switch to mobile version.

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