L. Announcement !

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

During the last contest, There was a notification saying "2 Problems are added Enjoy" Yasser found that the contestants were angry.

After the contest Moamen gives Yasser the problems of the next contest and asked him if the difficulty level of any problem exists more than once he will replace it with another easy problem.

Given N (The number of problems) then the difficulty of each problem and find How many problems should be replaced? If each problem exists exactly once print -1

Input
The first line of the input contains one Number N $(1 \leq N \leq 10^4)$

followed by N numbers -The difficulty level of the problems- $(0 \leq level \leq 10^6)$

Output
Print the answer of the problem.

Examples

input	Copy
3 1 1 2	

output	Copy
1	

input	Copy
1 1	

output	Copy
-1	

input	Copy
5 1 2 3 4 3	

output	Copy
1	

input	Copy
4 1 1 3 3	

output	Copy
2	

Assiut University Training - Newcomers

Public

Participant

→ About Group

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Group website

→ 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 #9 (General medium)

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 link.