

B. Fixed Points

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

A permutation of length n is an integer sequence such that each integer from 0 to $(n - 1)$ appears exactly once in it. For example, sequence $[0, 2, 1]$ is a permutation of length 3 while both $[0, 2, 2]$ and $[1, 2, 3]$ are not.

A fixed point of a function is a point that is mapped to itself by the function. A permutation can be regarded as a bijective function. We'll get a definition of a fixed point in a permutation. An integer i is a fixed point of permutation a_0, a_1, \dots, a_{n-1} if and only if $a_i = i$. For example, permutation $[0, 2, 1]$ has 1 fixed point and permutation $[0, 1, 2]$ has 3 fixed points.

You are given permutation a . You are allowed to swap two elements of the permutation at most once. Your task is to maximize the number of fixed points in the resulting permutation. Note that you are allowed to make at most one swap operation.

Input

The first line contains a single integer n ($1 \leq n \leq 10^5$). The second line contains n integers a_0, a_1, \dots, a_{n-1} — the given permutation.

Output

Print a single integer — the maximum possible number of fixed points in the permutation after at most one swap operation.

Examples

input
5 0 1 3 4 2
output
3

→ Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

Codeforces Round #201 (Div. 2)

Finished

→ Virtual participation

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