GlobeX Cup '18 S1 - Code Copiers

Time limit: 2.0s **Memory limit:** 128M

Code copying is a major problem on many online programming judges. There are N coders, of which some of them copy code from others. Coder i knows that **only** coder a_i copied from them.

There are always some "sources" from which coders copy from. A "source" is defined as a coder who does not copy from anyone. Your task is to find out how many "sources" there are.

Input Specification

The first line will contain the integer N $(1 \leq N \leq 10^6)$, the number of coders there are.

The second line will contain N integers, $a_1, a_2, \ldots, a_N$ $(0 \leq a_i < i)$. The i^{th} integer means that coder a_i copies from coder i. If $a_i = 0$, this means no coders copies from coder i.

Output Specification

Output the number of "sources".

Constraints

Subtask 1 [20%]

$N \leq 1\,000$

Subtask 2 [80%]

No additional constraints.

Sample Input 1

```
5
0 1 1 3 2
```

Sample Output 1

```
2
```

Sample Input 2

```
9
0 1 1 3 4 5 6 4 6
```

Sample Output 2

```
4
```