Rerouting

Your company has N servers. The information flows from one server to another through a connection.

If the information flows from server i to server j, then $connection_i = j$. It's possible for some server $connection_i = i$, meaning information doesn't flow further.

You are given an array $connection$ consisting of N integers. You are tasked with making minimum number of changes to $connection$ array values so that the information from all servers can reach at exactly one server in the whole network, where it terminates.

If node X is terminal server, then $connection_X = X$.

Input Format

First line contains an integer N, no of servers in the network.

Second line contains N integers, i^{th} of which is $connection_i$.

Constraints

- $1 \leq N \leq 3 \cdot 10^5$
- $1 \leq connection_i \leq N$

Output Format

An integer representing minimum number of changes required.

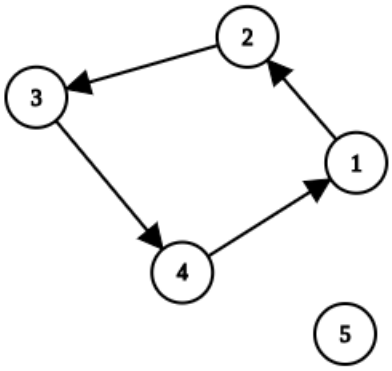
Sample Input 0

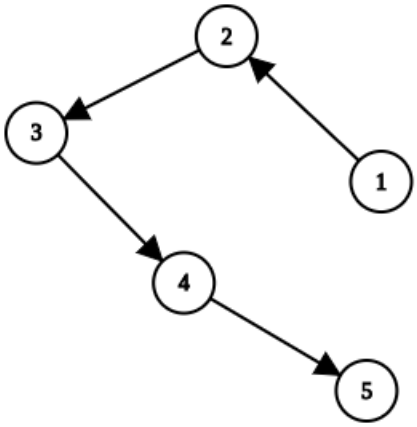
```
5
2 3 4 1 5
```

Sample Output 0

```
1
```

Explanation 0





We can choose node 5 as our terminal server and connect $4 \rightarrow 1$ edge to $4 \rightarrow 5$. Our modified connection array becomes $\{2, 3, 4, 5, 5\}$ after making just 1 update.

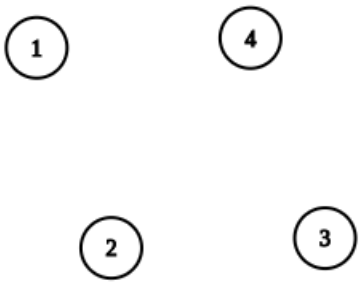
Sample Input 1

```
4
1 2 3 4
```

Sample Output 1

```
3
```

Explanation 1



We can select 1 as our terminal server and connect rest of the nodes to 1. The modified connection array becomes { $1, 1, 1, 1$}.