## Order

You are given permutation of $\mathbf{N}$ integers, that is, every number fomr 1 to N appears exactly once in the array. What is minimal number of swaps needed to sort the array?

Constraints :
$N<=100$

## Input

First number in the input is number $\mathbf{t}(\mathbf{t}<=\mathbf{1 0 0})$, donating number of test cases. Every testcase looks as follows. First line is number N describing size of the array. N number follow, donating the array.

## Output

Output one number, minimal number of swaps.

## Example

## Input:

2
3
213
5
53421

## Output:

1

3

Explanation :
In the first case, we swap $(1,2)$. In second example, we swap $(5,1),(3,2),(4,3)$.

