

Index of first 1 in a sorted array of 0's and 1's

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Given a sorted array consisting 0's and 1's. The task is to find the index of first '1' in the sorted array.

Input:

The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case consists of two lines. First line of each test case contains an Integer N denoting size of array and the second line contains N space separated 0 and 1.

Output:

For each test case, in a new line print the index of first 1. If 1 is not present in the array then print "-1".

Constraints:

$$1 \leq T \leq 300$$

$$1 \leq N \leq 10^5$$

$$0 \leq A[i] \leq 1$$

Example:

Input:

```
2
10
0 0 0 0 0 1 1 1 1
4
0 0 0 0
```

Output:

```
6
-1
```