2 – BOB AND ALICE

Bob and Alice are two friends, they have an array A consisting of N integers, A_1,A_2,A_3 ..., A_N. Alice likes the arrays in which if element X is present it must have exactly X or zero occurrences. So, Bob has decided to convert this array to an array which Alice likes. To do that, he can perform the following two operations:

- Add an element of any value to array A.
- Remove an element from array *A*.

Find the minimum number of operations Bob has to perform so that array is liked by Alice.

Input
The first line contains an integer T denoting the number of test cases ($1 \le T \le 20000$).
The first line of each test case contains an integer N ($1 \le N \le 200000$) denoting the number of elements in array A. The second line of each test case contains N space-separated integers of array A ($1 \le A_i \le 10^9$). The sum of N over all test cases does not exceed 200000.

Output
Print T lines. For each test case: print: "Case #", the number of the case, ": ", and the minimum number of operations to be performed.

Sample input

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

Sample output

```
Case #1: 1
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