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Contest Code: JUNE222D Problem Code: PAIREQ



Chef has an array ${\cal A}$ of length ${\cal N}$.

In one operation, Chef can choose any two **distinct** indices $i,j \ (1 \le i,j \le N, i \ne j)$ and **either** change A_i to A_j or change A_j to A_i .

Find the **minimum** number of operations required to make all the elements of the array **equal**.

Input Format

- ullet First line will contain T, number of test cases. Then the test cases follow.
- First line of each test case consists of an integer N denoting the size of array A.
- Second line of each test case consists of N space-separated integers A_1,A_2,\ldots,A_N denoting the array A.

Output Format

For each test case, output the minimum number of operations required to make all the elements equal.

Constraints

- $1 \le T \le 100$
- $2 \le N \le 1000$
- $1 \le A_i \le 1000$

Sample Input 1 🖆

4

3

1 2 3

4

5 5 5 5

4

2 2 1 1

3

1 1 2

Sample Output 1 🖆

2

0

2

1

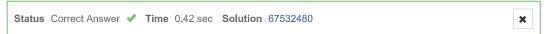
Explanation

Test Case 1: You can make all the elements equal in 2 operations. In the first operation, you can choose indices 1, 2 and convert A_1 to A_2 . So the array becomes [2, 2, 3]. Now you can choose indices 1, 3 and convert A_3 to A_1 , so the final array becomes [2, 2, 2].

Test Case 2: Since all the elements are already equal there is no need to perform any operation.

Test Case 3: You can make all the elements equal in 2 operations. In the first operation, you can choose indices 1,3 and convert A_1 to A_3 . So the array becomes [1,2,1,1]. Now you can choose indices 1,2 and convert A_2 to A_1 , so the final array becomes [1,1,1,1].

Test Case 4: You can make all the elements equal in 1 operation. You can pick indices 2,3 and convert A_3 to A_2 after which the array becomes [1,1,1].



Sub-Task	Task #	Result (time)
1	1	AC (0.077152)
1	2	AC (0.411313)
1	3	AC (0.422056)
1	4	AC (0.402015)
1	5	AC (0.407994)
1	6	AC (0.408516)
1	7	AC (0.409344)
1	8	AC (0.415748)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

```
Ł
  JAVA
                                                               Code gets autosaved every second
   12
                           Scanner sc = new Scanner(System.in);
                           Scanner sc = new Scanner(System.ir
int n = sc.nextInt();
for(int i = 0; i < n; i++){
   int len =sc.nextInt();
   int[] array = new int[len];
   for(int j = 0; j < len; j++){
      array[j] = sc.nextInt();
}</pre>
  13
14
   15
  16
17
   18
19
   20
21
22
                                  quickSort(array, 0, len - 1); // doing swapping since takes less time to find element repeating mo
                                  quickSort(array, 0, ien - 1), // c
int count = 1;
int temp = 1;
for(int j = 0; j < len - 1; j++){
    if(array[j] != array[j + 1]){
        if(temp > count){
            count = temp;
        }
}
  23
24
25
26
27
  28
29
30
31
                                                  temp = 0;
                                          temp++;
   32
                                   count = count > temp ? count : temp;
  33
34
35
                                  System.out.println(len - count);
   36
   37
38
                   public static int partition(int[] arr. int low. int high)
19:137
                                                                                                                                                                                                                            \mathbb{C}
```

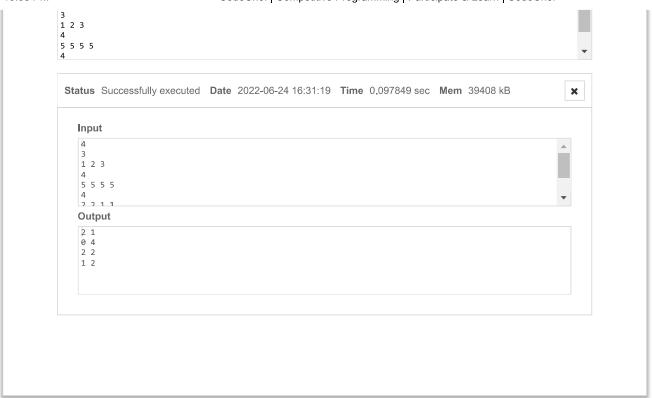
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