

<https://course.acciojob.com/idle?question=401371a0-af9a-4e9c-ab4c-015c14491659>

● EASY

● Max Score: 30 Points

●

●

Minimum Operations

Given an array `arr` with n positive integers. Find the minimum number of operations to make all elements of the array equal.

You can perform addition, subtraction, multiplication, or division with any integer on an array element.

Input Format

The first line contains the number of test cases.

The second line of input contains the integer n .

The last line contains n spaced integers.

Output Format

For each test case print a single integer in a new line, denoting the minimum number of operations.

Example 1

Input

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

Output

3

Explanation

Since all elements are different, we need to perform at least three operations to make them equal. For example, we can make them all equal to '1' by doing three subtractions.

Example 2

Input

1
3
1 1 2

Output

1

Explanation

We can subtract '1' from '2' to make all the elements of the array equal to '1'.

Constraints

$1 \leq t \leq 10$

$1 \leq n \leq 10000$

$0 \leq \text{arr}[i] \leq 100000$

Topic Tags

- Hashing
- Basics

My code

// in java

```
import java.io.*;
```

```
import java.util.*;
```

```
public class Main {  
    public static void main(String args[]) {  
        // your code here  
        Scanner s=new Scanner(System.in);  
        int p=s.nextInt();  
        for(int l=0;l<p;l++)  
        {  
            int n=s.nextInt();  
            int arr[]=new int[n];  
            for(int i=0;i<n;i++)  
                arr[i]=s.nextInt();  
            HashMap<Integer,Integer>hm=new HashMap<>();  
            for(int i=0;i<n;i++)  
                hm.put(arr[i],hm.getDefault(arr[i],0)+1);  
            //now find max freq  
            int max=0;  
            int max_key=0;  
            for(int i=0;i<n;i++)  
            {  
                int t=hm.get(arr[i]);  
                if(t>max)  
                {  
                    max=t;  
                    max_key=arr[i];  
                }  
            }  
        }  
    }  
}
```

```
        }  
        System.out.println(n-max);  
    }  
}
```