Increasing Array AZ101

? Ask Doubt

Time-Limit: 1 sec Score: 100.00/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100

Description

You are given an array of N integers. In one operation, you can increase the value of any element by one. Find the minimum number of operations to make the array non-decreasing.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

Output Format

For each test case, print the minimum number of operations to make the array Non-Decreasing.

Constraints

$1 \le T \le 10^5$

$1 \le N \le 10^5$

$1 \le A_i \le 10^9$

It is guaranteed that the sum of N over all test cases does not exceed 10^5.

Sample Input 1

Copy

```
3
4
4 5 1 9
5
1 3 4 4 3
3
1 1 1
```

Sample Output 1

Copy

```
4
```

C++14[GCC]

Submit

```
1
```