

Sharmmen and Max Subarray

Sharmeen loves to play with Array. One day she created an array and wonder what will be the max length of a subarray (the whole array is also considered as a subarray) if difference of all the adjacent values in it are zero(0).

Can you help her to find the length of the Max Subarray?

Input

First line contains the testcase t ($1 \leq t \leq 50$)

For each test case,

In the first line given the size of the array, n ($1 \leq n \leq 10^5$). In the next line given n integers, all the values in this array are in between (-10^{18} to 10^{18}).

Output

For each test case output one line, the size of the Max Subarray.

For clarification see the sample input output.

Example

Input:

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

Output:

```
3
```