Problem statement Send feedback

You are given a sorted integer array ***'arr'*** of size ***'n'***.

You need to remove the duplicates from the array such that each element appears only once.

Return the length of this new array.

Note:

Do not allocate extra space for another array. You need to do this by modifying the given input array in place with O(1) extra memory.

For example:

'n' = 5, 'arr' = [1 2 2 2 3].
The new array will be [1 2 3].
So our answer is 3.

Detailed explanation (Input/output format, Notes, Images)

Sample input 1:

10
1 2 2 3 3 3 4 4 5 5

Sample output 1:

5

Explanation of sample input 1:

The new array will be [1 2 3 4 5].
So our answer is 5.

Sample input 2:

9
1 1 2 3 3 4 5 5 5

Sample output 2:

5

Expected time complexity:

The expected time complexity is O(n).

Constraints :

1 <= 'n' <= 10^6
-10^9 <= 'arr[i]' <=10^9

Where ‘arr[i]’ is the value of elements of the array.

Time limit: 1 sec