Leet Code #26

5 Day - 7

Removing Duplicates from a Sorled Array

Given an muger array in non-decreasing

order number the duplicate m-place such

that each wide element appears only once.

The relative order of the elements should be

Kept Same. We then have to return the

number of unique elements.

Approach

D We Can use two vouiable and a for loop to orchrone duplicates from the array using m-place algorithm. In-place algorithm. In-place algorithm and data structure

with out creating a new one.

 $(2) \quad \text{int } j = 15$ mt 1 = 15 for(i; i<n; i+t)2 ig (com 1 = prev) Prev = CWW; 7+7; retun j

We are starting from -> 1 ms tead of 1 because We need to check if the previous element es equal to ine Curent element. Ty it is I then keep Mexaring Otherwise overwrite the value stanting from malk 1) and Increment j to come over to the next Clement in the array.

Example Illustration

[1,1,2]

an. size () => 3

for (i, i < 3, i++)

checre arr [i] != arr [i-1])
(1)
L> False. So nothing

Now ? becomes 2. Check an [i] != an [i-1] (2) L> TRUE so replace am [j] = am [j] $[1,1,2] \longrightarrow [1,2,2]$ This will keep a track of no of unique elements.

After Iterating (End of for 100p)

we return (j)