* Remove duplicates from a sorted array:

nums = [0,0,1,1,1,2,2,3,3,4]

- Arrays will always be sorted in ascending order.

 We have to do it in-place. So we cannot create a new arr.

* Two pointer approach

$$num = [0, 0, 1, 1, 2, 2, 3, 3, 4]$$

- nums = [0,0,1,1,1,2,2,3,3,4]

 The input away has to modified in place such that the first k elements are unique. are unique.
- → So, initially k=0 because we don't know how many duplicates are there in the oray.

- → & represents the position of a unique element.
- Since we don't know how many dups exists, we initialized k=0 which means that the first element is unique.
- -> Now we need to iterate over the averay from index 1 & compare with clement at

- -> +Pere, unus [x] == unus [i]. Lo ve have found a duplicate.
- -> Ideally, the element next to k should be unique.
- → So we search for unique element & put it just event to h.

-> Tound unique, so sputting it west to l.

- -> Juitially &=0 which represented that the 0th element is unique.
- Nove we have place I next to k on index 1.
- This mean that we have verigue elements from index [0,1].
- So, we paint le to 1. 3 so on.
- -> Thus, every unique element will be placed west to Ik & will point to the updated unique element.
- Juice ette loop is completed, we know that the elements from hange [0, k] are unique.
- Kence, we setwin (k+1) because 0-indexed alway.

Tc:-0(n)

Sc:- 0(1)

Code - https://github.com/TheParthMaru/DSA/tree/main/leetcode/0026_Remove_dup_from_sorted_arr **Problem -** https://leetcode.com/problems/remove-duplicates-from-sorted-array/