80. Remove Duplicate from Sorted Array ll

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

O.P = 5, nums = [1, 1, 2, 2, 3, _]

$$[\overset{0}{1}, \overset{1}{1}, \overset{2}{①}, \overset{3}{2}, \overset{4}{2}, \overset{5}{3}]$$

→ i should start from i==2.
→ if (nums [i] == nums[i-2]) || Then its repeating.

For (int i = 2; i < arr. length-1 ; i++)

    if (nums [i] != num[i-2])

        nums[i] = nij [i-1]

This approach failed :(

i = 2

num[2] == nums[0] ✓

    nums[i] = nums[i+1]

* Counter missing.

Counter = 2 //initial start

* Element Shifting is wrong.

→ output was

[1, 1, 2, 2, 3, ③]
              ↓
        wrong.

Second Approach

$$[1, 1, 1, 2, 2, 3]$$
$$0\ 1\ 2\ 3\ 4\ 5$$

```
int counter = 2;

for (int i = 2; i < arr.length; i++)
        if (nums[i] != nums[counter-2])

            nums[counter] = nums[i]

            counter = counter + 1;


    return counter.
```

Hand Tracing   i = 3

if (num[3] != num[3-2]) ✓

nums[2] = nums[i]

counter = 3;

nums[2] = 3

*new

array = [1, 1, 2, 2, 2, 3]

Then

Process goes on until

duplicates are

removed.