

# Remove ~~the~~ Duplicate from Sorted

inp: 0, 0, 1, 1, 1, 2, 2, 3, 4  
opt: 0, 1, 2, 3, 4.

## idea

As array is sorted, we can say ~~we~~ that with certainty if element is duplicate, then it's previous or next element is same.

$\therefore$  we check if it previous element is same.



## pseudo code

```
int j = 0
```

```
for i: 0 → n-1
```

```
    if inp[i] != inp[i-1]
        inp[j++] = inp[i];
```

```
return j
```

inp	i	j	cond <sup>n</sup>	Action	operation
0, 1, 1, 1, 2, 3, 1	0	1	0 != 0	false	N/A
"	1	1	1 != 0	true	inp[j] = 1
"	2	2	1 != 1	false	N/A
"	3	2	1 != 1	false	N/A
"	4	2	2 != 1	true	inp[j] = 2
"	5	3	2 != 2	false	N/A
"	6	3	3 != 2	true	inp[j] = 3
"	7	4	4 != 3	true	inp[j] = 4

~~if~~ OUTPUT = 0, 1, 2, 3, 4