

Remove Element

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

* Create a counter that keeps track of
 that are not equal to target value.

* When $\text{nums}[i] \neq \text{value} \rightarrow \text{nums}[\text{counter}] = \text{nums}[i]$

* Return Counter.

Pseudo code:

```

    For (int i=0; i<=nums.length-1; i++)
        int counter=0;
        if (nums[i] != value)
            nums[counter] = nums[i];
            counter++;
        return counter;

    Time complexity = O(n)
  
```

→ nums.length-1

i=0, value=2
 i=0, nums[0] = nums[0]
 counter = 1
 i=1, nums[1] = nums[1]
 counter = 2
 i=2, it is equal to value
 i=3,
 i=4, num[4] = nums[2]
 counter = 3
 i=5, nums[5] = nums[3]
 counter = 4
 i=6, nums[6] = nums[4]
 counter = 5
 i=7 // equal to value
 returns 5

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