Remove Element

val = 2

nums = [0, 1, 2, 2, 3, 0, 4, 2]
(0 1 2 3 4 5 6 7)

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

* When nums[i] != value → nums[counter] = nums[i];

* return Counter.

Pseudo code:

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

return counter;
```

→ nums.length - 1

Time complexity = O(n)

*

i=0, value = 2

i=0, nums[0] = nums[0]
counter = 1

i=1, nums[1] = nums[1]
counter = 2

i=2, if is equal to value move on

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