/\*Given an array and a value, remove all instances of that value in-place and return the new length.

Do not allocate extra space for another array, you must do this by modifying the input array in-place with O(1) extra memory.

The order of elements can be changed. It doesn't matter what you leave beyond the new length.

## Example:

Given nums = [3,2,2,3], val = 3,

Your function should return length = 2, with the first two elements of nums being 2.\*/

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- 思想:
- (1) 双指针思想:双指针思想,一个头指针指向数组的头,一个尾指针指向数组的尾;当头指针指向val值的时候,移动尾指针知道它指向非val值,将非val值转移到头指针处
- (2) 巧妙之处是
- 1、当头指针未指向val值时,不需要进行任何操作;
- 2、只需将尾指针的值转移到头指针处,不需要把头指针的值转到尾指针处,因为题目没有要求"垃圾"部分的值
- (3)这道题和26题的区别是: 26题要求是有序的, 所以只能用两个同向指针遍历数组; 而本题目无序, 所以可以使用相遇指针加快速度