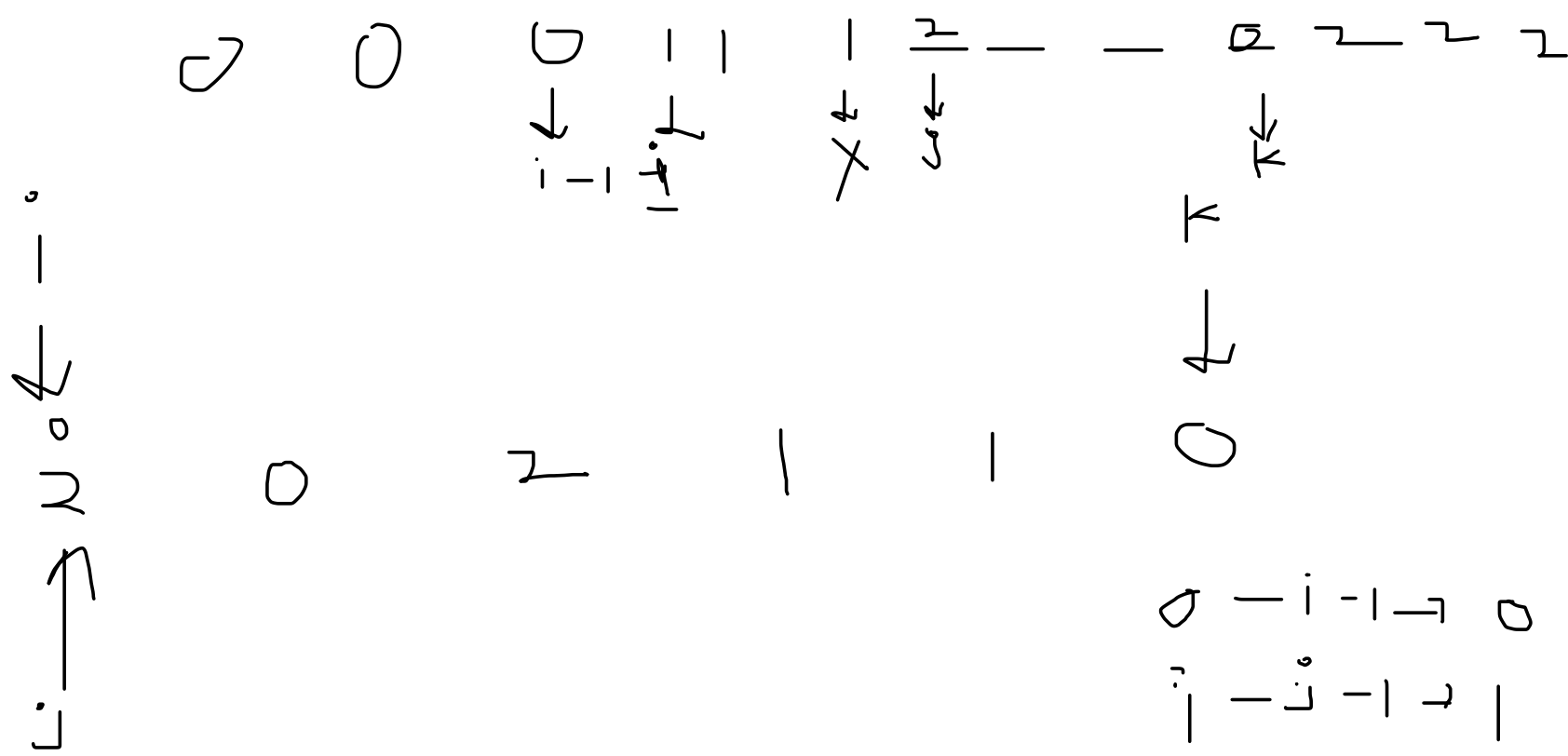
sort color

nums = [2,0,2,1,1,0]



j == 1

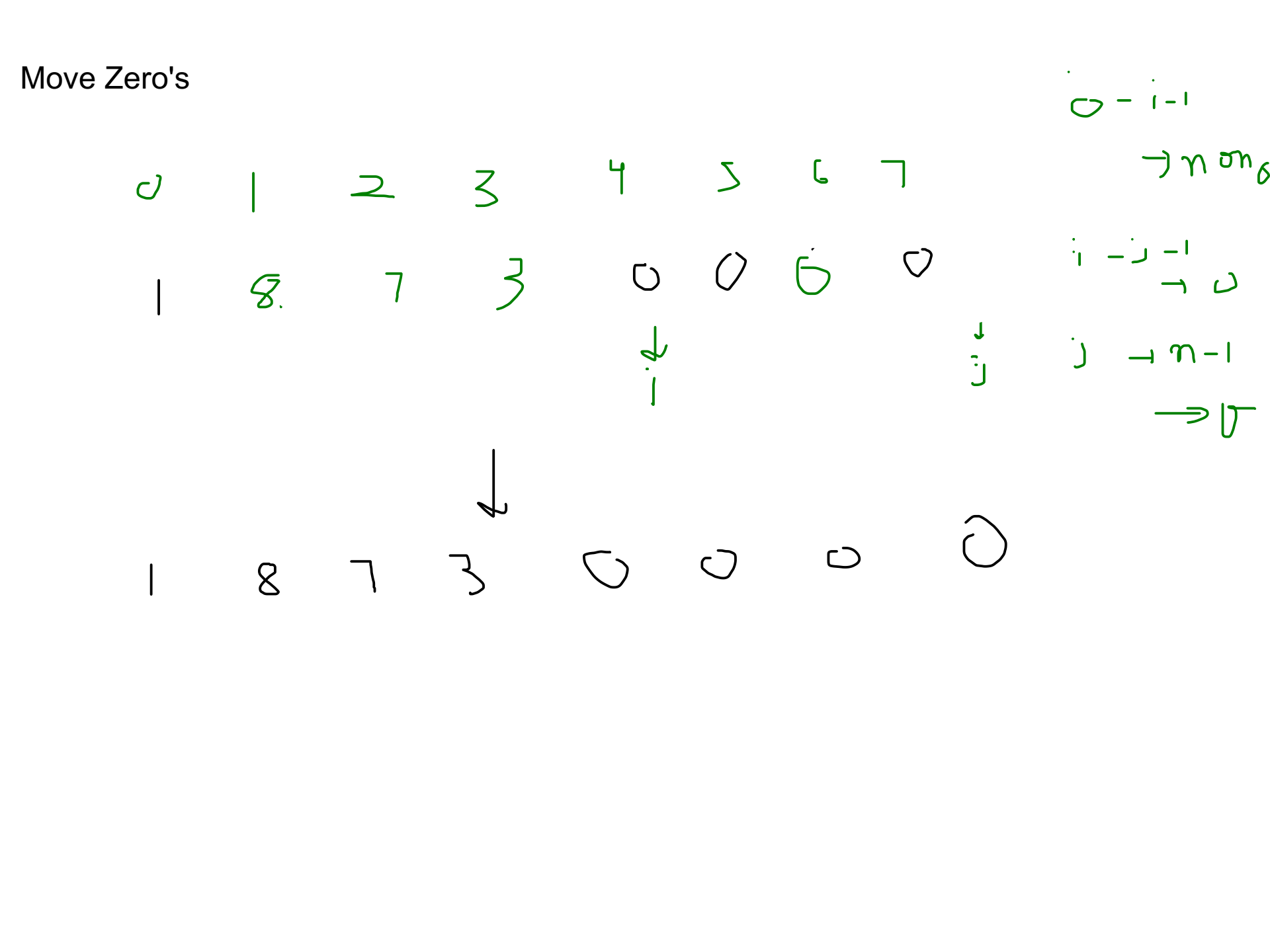
--> j++

j == 0

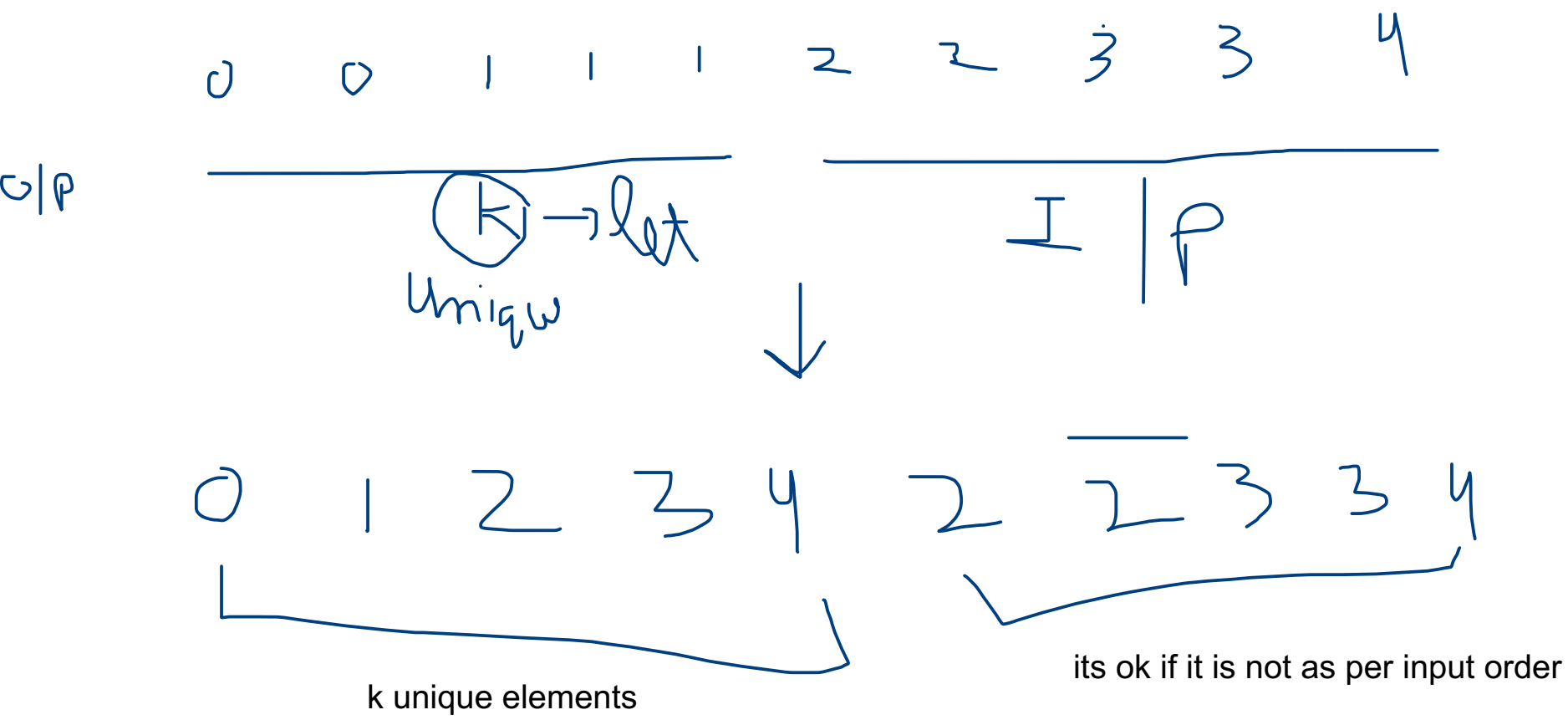
swap(i, j)
i++; j++

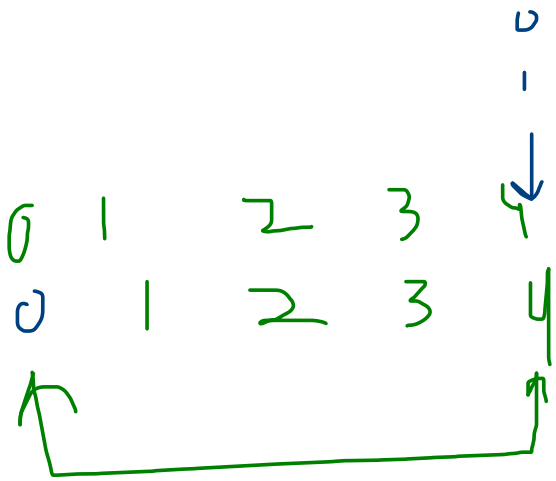
j == 2
swap(j, k)
k--

Move Zero's



remove-duplicates-from-sorted-array/

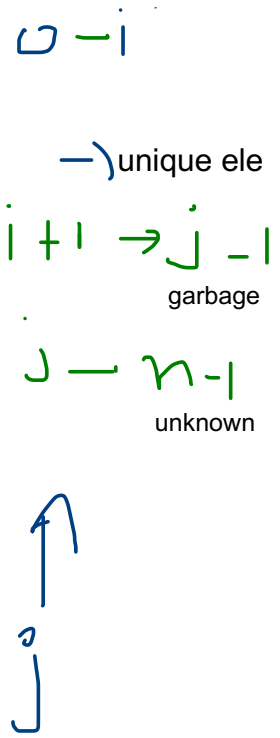




Unieque Elements

Longest Substring Without Repeating Characters

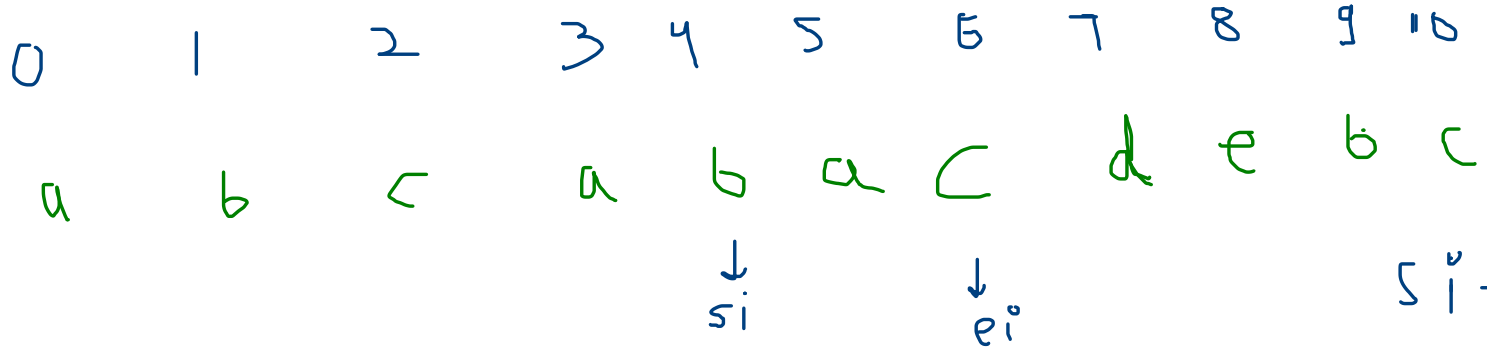
Garbage



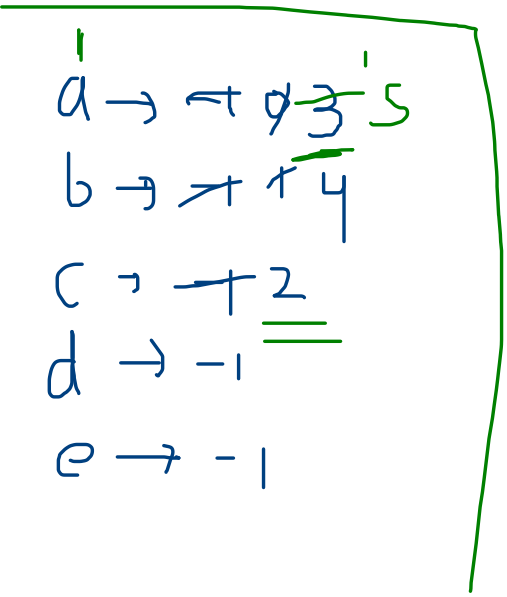

```
if (arr[i] == arr[j])
j++

if (arr[i] != arr[j])
arr[i+1] = arr[j]
i++; j++
```

Longest Substring Without Repeating Characters



Map char --> last index of char



len of unique region = ei - si + 1

maxUniqueLen = ~~0~~ 2 3

(si = 4, 2)

if char is not in map

1. cal len of unique region update
2. maxUniqueLen
3. update map
4. ei++

if (char is present in map

si = max(si, (map[ch] + 1)

1. cal len of unique region update
2. maxUniqueLen
3. update map
4. ei++