

Lecture-20

Solving LeetCode/CodeStudio Questions [Arrays]

Q1 Reverse The Array

https://www.codingninjas.com/studio/problems/reverse-the-array_1262298

swap from front and end

```
#include <bits/stdc++.h>
void reverseArray(vector<int> &arr , int m)
{
    // Write your code here.
    int s=m+1,e=arr.size()-1;
    while(s<=e){
        swap(arr[s],arr[e]);
        s++;
        e--;
    }
}
```

Q2. [88. Merge Sorted Array](#) --> two pointer approach

```
class Solution {
public:
    void merge(vector<int>& nums1, int m, vector<int>& nums2, int n) {
        int i = m - 1;
        int j = n - 1;
        int k = m + n - 1;
        while (i >= 0 && j >= 0) {
            if (nums1[i] > nums2[j]) {
                nums1[k] = nums1[i];
                i--;
            } else {
                nums1[k] = nums2[j];
                j--;
            }
            k--;
        }
    }
}
```

```
// If there are remaining elements in nums2
while (j >= 0) {
    nums1[k] = nums2[j];
    j--;
    k--;
}
}
};
```

Q3. [283. Move Zeroes](#) --> two pointer approach

```
class Solution {
public:
    void moveZeroes(vector<int>& nums) {
        int i=0;
        for(int j=0;j<nums.size();j++){
            if(nums[j]!=0){
                swap(nums[j],nums[i]);
                i++;
            }
        }
    }
};
```