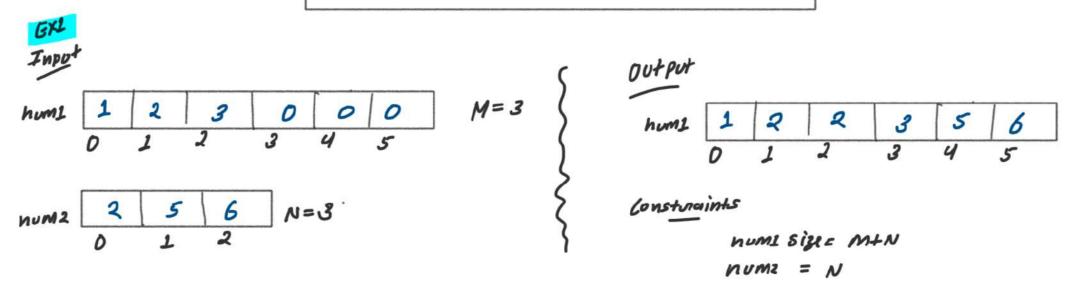
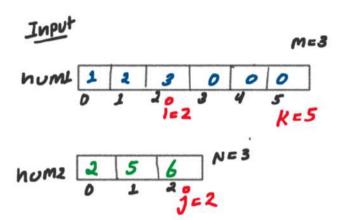
#### MERGE SORTED ARRAY (LEETCODE-88)

GitHub: github.com/BCAPATHSHALA

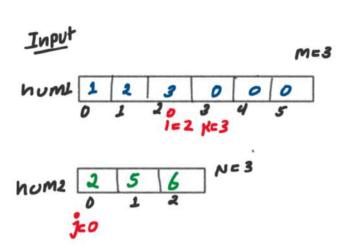
Date: 23-12-2023



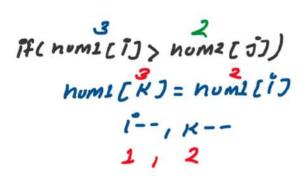
### Two pointer Approach

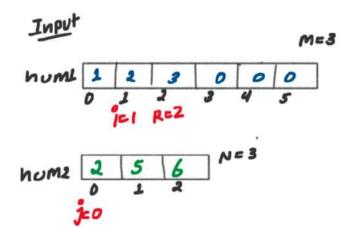


# Jimatimi Numi 1230 0123

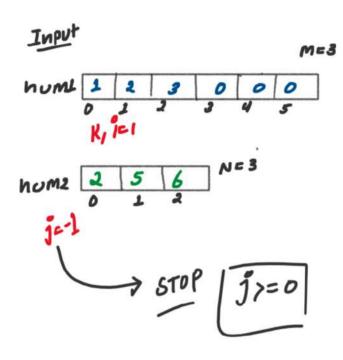












#### Itmution 5

whike 
$$(j \ge 0)$$
 \( \frac{1}{2} = 0 \) \( \f

### Two pointer Approach

$$| Input | Dutput | Dutput | Dumi | I | Dumi | D$$

$$| Input | EMP$$

$$| N=0$$

$$| N=1$$

$$| M=1 \Rightarrow -1$$

$$| M=1 \Rightarrow -1$$

$$| M=1 \Rightarrow -1 \Rightarrow -1$$

$$| M=1 \Rightarrow -1 \Rightarrow -1 \Rightarrow 0$$

$$| M=1 \Rightarrow -1 \Rightarrow 0$$

$$| M=1 \Rightarrow 0$$

## Two pointer Approach

$$if(0 < 1)$$

$$f = 1$$

$$j = -1$$

$$j = 0$$

using STL (SORT) APPROACH

I.C. O(N+W) O ( 1 of W+N)

STEPL STORE WUMZ in NUML

Num1 1 2 3 2 5 6

STEP2 SORT NUM1

Num1 1 2 2 3 5 6 0 1 2 3 4 5

-> out put

```
/*
Approach : Using STL
Time Complexity: O((M+N)log(M+N))
Space Complexity: O(1)
Author: github.com/BCAPATHSHALA
*/
class Solution {
   public:
      void usingSTL(vector<int>& nums1, int m, vector<int>& nums2, int n){
            for(int i = m, j = 0; j < n; j++, i++){
                nums1[i] = nums2[j];
            }
            sort(nums1.begin(),nums1.end());
      }
      void merge(vector<int>& nums1, int m, vector<int>& nums2, int n) {
            // Approach : Using STL
            usingSTL(nums1, m, nums2, n);
      }
};
```