

## 88. Merge Sorted Array

AAPROACH->EXTRA SPACE AND 2 POINTER

-> DO POINTER LELO 0<sup>TH</sup> SE START KARNA BOTH JIS AARYA KA ELEMNT CHOTA HAI USE ANS AARY ME DAAL DENA AND USKA POINTEER PLUS KARDENA

-> AGAR BOTH AARRAY SAME SIZE KA HAI TAB TO THIK HAI

-> AGAR KOI ARRAY BADA HAI TO USKE LAST KE ELEMNT JO EXTARA HAI BACH JAYYEGE TO UNKE LIYE ALAG SE EXTRA LOOP CHLA KE SAME IT IS INSERT KARDENA

```
1  class Solution {
2  public:
3      void merge(vector<int>& nums1, int m, vector<int>& nums2, int n) {
4          vector<int>ans;
5          int i=0;
6          int j=0;
7          while(i<m && j<n){
8              if(nums1[i]<nums2[j]){
9                  ans.push_back(nums1[i]);
10                 i++;
11             }else{
12                 ans.push_back(nums2[j]);
13                 j++;
14             }
15         }
16     }
17     while(i<m){
18         ans.push_back(nums1[i]);
19         i++;
20     }
21     while(j<n){
22         ans.push_back(nums2[j]);
23         j++;
24     }
25     nums1=ans;
26 }
27
28
29 };
```