## Merge two Sorted Arrays Without Extra Space

arr2.sort()

**Problem statement:** Given two sorted arrays **arr1**[] and **arr2**[] of sizes **n** and **m** in non-decreasing order. Merge them in sorted order. Modify arr1 so that it contains the first N elements and modify arr2 so that it contains the last M elements

```
def mergeTwoSortedArraysWithoutExtraSpace(arr1 : List[int], arr2 : List[int]) -
> int:
    n=len(arr1)
    m=len(arr2)
    left=n-1
    right=0
    while(left>=0 and right<m):
        if arr1[left]>arr2[right]:
        arr1[left],arr2[right]=arr2[right],arr1[left]
        left==1
        right+=1
        else:
        break
```