nums1 = [2,4,6,7,3,7,9]

nums2 = [9,56,45,4,6,7,8,5]

nums1.sort()

nums2.sort()

print("nums1 = ", nums1)

print("nums2 = ", nums2)

m, n = len(nums1), len(nums2)

for i in range(n):

    nums1.append(0)

i, j = 0, 0

temp = []

while(i<m and j<n):

    if nums1[i]<=nums2[j]:

        temp.append(nums1[i])

        i += 1

    else:

        temp.append(nums2[j])

        j += 1

while(i<m):

    temp.append(nums1[i])

    i += 1

while(j<n):

    temp.append(nums2[j])

    j += 1

for i in range(m+n):

    nums1[i] = temp[i]

print(nums1)