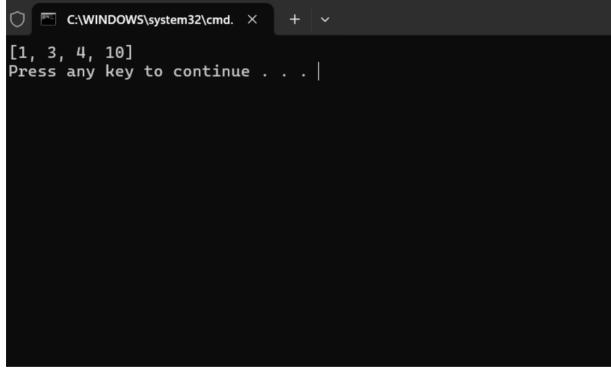
48) Merge Sorted Array You are given two integer arrays nums1 and nums2, sorted in non-decreasing order, and two integers m and n, representing the number of elements in nums1 and nums2 respectively. Merge nums1 and nums2 into a single array sorted in non-decreasing order. The final sorted array should not be returned by the function, but instead be stored inside the array nums1. To accommodate this, nums1 has a length of m + n, where the first m elements denote the elements that should be merged, and the last n elements are set to 0 and should be ignored. nums2 has a length of n.

```
code:
def sort(a,b):
    a.sort()
    b.sort()
    c=[]
    for i in range(len(a)):
        c.append(a[i])
    for i in range(len(b)):
        c.append(b[i])
    return c
a=[3,1]
b=[10,4]
print(sort(a,b))
output:
```



TIME COMPLEXITY: O(m+n)