

Merge Sorted Array

Input: nums1 = [1,2,3,0,0,0], m = 3, nums2 = [2,5,6], n = 3

0(m+n)

nums1=[1,2,3,2,5,6]

nums1=[1,2,2,3,5,6]

nums1 = [1,2,3,| 0,0,0],
 -4 -3 -2 -1

Nums1 [0 , len(a)-len(b)-1]

a=[1,2,3] b=[0,5,6]
 | j

```
if(a[i]<a[j])
{
    nums[k]=a[i]
    k++
    i++
}
Else{
    nums[k]=b[j]
    k++
    j++
}
```

a=[] b=[5,6]
i<=len(a)-1 and j<=len(b)-1

nums1=[1 2 2 3 0 0]
 K

Merge method

If a was empty first
Or b was empty first

Remaining values of i and j we will write 2 separate while loops
i<=len(a)-1 copy from a

j<=len(b)-1 copy from b

Python : <https://leetcode.com/problems/merge-sorted-array/submissions/1973745041>

Java : <https://leetcode.com/problems/merge-sorted-array/submissions/1973745041>