

Merge sorted arrays:

- 1. num1 sorted numbers m=1, length 5, containing 1 value rest zero[4,0,0,0,0]**
- 2. num2 have sorted numbers m=5, length 5, containing 5 value [1,2,3,5,6]**

Merging will start from backwards this will optimize the solution as we will go only for the length of the second that need to be added

[4,0,0,0,0]Will be

[4, 0, 0 ,0,0,6]As we will fill first the last element of the array which we will compare with the m th value of the num1 array value

If the mth value is less than the nth value of the num2 array the nth value will be inserted at the end of the num1 array

And reduce the K value of the full array and the nth value of num2 array

similarly for 5i in [1,2,3,5,6]=> [4, 0, 0 ,0,5,6]

now when I insert that second value of the num2 array that is 3

here 3 is less than 4 now this will get swap

Report for in the third value of the whole array and three will be in place of 4

[4, 0, 0 ,4,5,6]

reduce the Kth value and the n value reduced

As nth value does not exist now

it will Insert 3 then 2 and replace four with 1

Now when two will be insert it will also get replace similarly

[4, 0, 0, 0, 0, 6]

[4, 0, 0, 0, 5, 6]

-- [4, 0, 0, 4, 5, 6] -1

[4, 0, 3, 4, 5, 6]

[4, 2, 3, 4, 5, 6]

[1, 2, 3, 4, 5, 6]