Mesge sorted Array

You are given two sorted arrays, names, and numse, with mand n valid elements respectively Meiginums 2 ent o numer in-place, so that named becomes assingle sorted acray of length min

EX:

nums 1 = [1,2,3,0,0,0], m=3 Input: nums 2 = [2, 5, 6], n=3output: (1,2,2,3,5,6)

- Tabe Proport of two sorted arrays nums, nums? and their lengths, m, n.
- 2) copy elements from nums a into nums y
  - -, start felling from ender m en norm!
  - -s After this, nums 1 contains all element
- 3) sort the mergrel array
- suse tubble sort to order all min elements incemon
  - -> compare adjacent elements, swap of left is bigger than
  - -> Repeat until fully sorted and return sorted ally

```
code;
for (Int j=0; j(n; j++))
     nums I [m+j] = num>[]] ladd nums 2 element
                               to namy 1
Usorting the allay
  for Cint 1=0; 1/m+n-1; 1++){
   for cint 5=0; jem+n-1-1; j++){
    if (num 1/j1) numr1/j+D)/ 1/if dements aut of
                                llswap
        int temp=num 1 (17)
       numifjj=nums1[j+1];
       nums15jH] = temp
Time complexity: O((m+n)2)
space complexity: O(1)
```