Merge Sorted Array

# Question

Given two sorted integer arrays nums1 and nums2, merge nums2 into nums1 as one sorted array.

The number of elements initialized in nums1 and nums2 are m and n respectively. You may assume that nums1 has enough space (size that is equal to m + n) to hold additional elements from nums2.

**Example 1:**

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

Output: [1,2,2,3,5,6]

**Example 2:**

Input: nums1 = [1], m = 1, nums2 = [], n = 0

Output: [1]

# Pseudo Code

Store the Elements of nums2 array in the end of nums1 Array.

Assign the value of m to tempCounter

Run the For Loop

nums1[tempCounter] <- nums2[i]

Increment the tempCounter

Apply Bubble Sort to sort this Array.

# Source Code

## V 1.0

1. void merge(int\* nums1, int nums1Size, int m, int\* nums2, int nums2Size, int n){
3. int tempCounter = m, tempVariable = 0;
4. for(int i=0 ; i<n ; i++) {
5. nums1[tempCounter] = nums2[i];
6. tempCounter++;
7. }
9. for(int i=0 ; i<(nums1Size) ; i++) {
11. for(int k=0 ; k<((nums1Size)-i-1) ; k++) {
13. if(nums1[k+1] < nums1[k]) {
14. tempVariable = nums1[k];
15. nums1[k] = nums1[k+1];
16. nums1[k+1] = tempVariable;
17. }
18. }
19. }
20. }

## V 2.0