Merge Sorted Array

Question: Given two sorted integer arrays A and B, merge B into A as one sorted array.

Note: You may assume that A has enough space (size that is greater or equal to m + n) to hold additional elements from B. The number of elements initialized in A and B are m and n respectively.

Solutions:

```
class Solution(object):
  def merge(self, A, m, B, n):
    :type A: List[int]
    :type m: int
    :type B: List[int]
    :type n: int
    :rtype: void Do not return anything, modify A in-place instead.
    .....
    indexA = m-1;
    indexB = n-1;
    while indexA >=0 and indexB>=0:
      if A[indexA] > B[indexB]:
         A[indexA+indexB+1] = A[indexA]
         indexA -= 1
      else:
         A[indexA+indexB+1] = B[indexB]
         indexB -= 1
    while indexB \ge 0:
      A[indexB] = B[indexB]
```

```
indexB -= 1
```

Solution().merge([1],1,[],0)

All you need is understanding the algorithm, don't try other cases.

In case you're wondering, if the requirements do not include modifying an array in-place. This is how you merge arrays:

```
arr1 = [1,2,3,10,20]
arr2 = [2,2,10,60]
result = sorted(arr1 + arr2)
print ( result )
```