**Part 2**

Code:

**public** **class** MergeSortedArray {

**public** **static** **void** main(String args[])**throws** Exception{

**int**[] a1 = **new** **int**[]{ 1 };

**int**[] a2 = **new** **int**[]{ 0};

MergeSortedArray merge = **new** MergeSortedArray();

merge.merge (a1,1,a2,0);

}

**public** **void** merge(**int**[] nums1, **int** m, **int**[] nums2, **int** n) {

**int** finalArray[] = **new** **int**[m+n];

**int** i = m+n-1;

**for**(; i>=0; i--){

**if**(m==0){

**for**(**int** x = n-1; x>=0 ; x-- , i-- ){

finalArray[i] = nums2[x];

}

**break**;

}**else** **if**(n==0){

**for**(**int** x = m-1; x>=0 ; x-- , i--){

finalArray[i] = nums1[x];

}

**break**;

}

System.***out***.println("m= " + m + "nums1[m]" + nums1[m-1]+ "n= " + n + "nums2[n]" + nums2[n-1]);

**if**(nums1[m-1]<nums2[n-1]){

finalArray[i] = nums2[n-1];

n--;

}**else**

**if**(nums1[m-1]>nums2[n-1]){

finalArray[i] = nums1[m-1];

m--;

}**else**

**if**(nums1[m-1] == nums2[n-1]){

finalArray[i] = nums2[n-1];

finalArray[i-1] = nums2[n-1];

i--;m--;n--;

}

}

**for** (i= 0; i < nums1.length ; i++){

nums1[i] = finalArray[i];

System.***out***.println(nums1[i]);

}

}

}

Results:

Bugs Found:

**No Bugs Found by Spotbugs No Fix required since there were no errors reported**

Fixes:

**No Fix required since there were no errors reported**