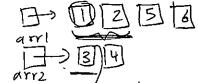
Q6: Array Programming



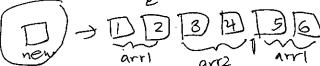
Write a static method called insertMiddle that takes in two integer arrays as parameters (we'll call them arr1 and arr2) and returns a new array that contains:

- 1. the elements from the first half of arr1
- 2. then, all of the elements of arr2
- 3. finally, the rest of the elements in the second half of arr1

For example, consider the following two arrays:



A call to insertMiddle(arr1, arr2) should return the following array:



It may be the case that the first array has an odd length. In this case, treat the first half as the "shorter half" of the two. For example, consider the following two arrays:



A call to insertMiddle(arr3, arr4) should return the following array:

In addition,

- you may assume that neither array is null
- you may <u>not</u> assume that neither array is non-empty; in other words, your method should also work if one (or both) of the arrays has length 0

As a reminder, you are restricted to the methods and classes provided on the reference sheet. Your method should <u>not</u> modify either of the arrays that are provided as parameters.

public static int[] instamidale (int[]arm, int[]arm

int midpoint = arr1.length/2; int[] new=nt Carr1.length + arr2.length]
new

for Cinti=O; i < midpoint; i+t; {

newArray[i] = arri[i];

tor (int i=0; izarrz.length; i++) {

newArray [i+midpoint] = arr2[i];

3

for (int i=midpoint; i arr1.length; i++) & new Array [i+arr2.length] = arr1[i];

3

return now Army;