I’m trying to write a function merge that take two sorted arrays as parameters. The function should create a new array whose size is the sum of the two parameter array lengths. The merge function should then fill in the new array with elements from the two parameters such that the two sorted arrays are merged into one sorted array. You may *not* simply append the two arrays and then sort the result. Instead, you should be examining each element of the arrays in turn to see which one is smaller. See the example below for how the function should be called:

**var** arr1 = [3, 7, 12, 15, 22, 45, 56];

**var** arr2 = [1, 2, 5, 17, 20];

**var** arr3 = merge(arr1, arr2);

// arr3 now has [1, 2, 3, 5, 7, 12, 15, 17, 20, 22, 45, 56]

Here is what I have so far:

**My HTML Page**

<html>

 <head>

 <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">

 <title>Function Merge</title>

 <script type="text/JavaScript" src="mergeFunction.js"></script>

 </head>

 <body>

 <h1><b>Function Merge</b></h1>

 <script>

 **var** arr1 = [3, 7, 12, 15, 22, 45, 56];

 **var** arr2 = [1, 2, 5, 17, 20];

 **var** arr3 = merge(arr1, arr2);

 // arr3 now has [1, 2, 3, 5, 7, 12, 15, 17, 20, 22, 45, 56]

 </script>

 </body>

</html>

**My JavaScript Page**

**function** mergeFunction(arr1, arr2){

 **var** arr1 = [3, 7, 12, 15, 22, 45, 56];

 **var** arr2 = [1, 2, 5, 17, 20];

 **var** arr3 = merge(arr1, arr2);

 // arr3 now has [1, 2, 3, 5, 7, 12, 15, 17, 20, 22, 45, 56]

 **var** myArray3 = myArray1.concat(myArray2);

 document.write("Merged array<br>----------------<br>");

**for** (**var** i = 0; i < myArray3.length; i++)

 document.write(myArray3[i] + "<BR>");

 }