17, 10, 15, 13, 4, 12, 7, 9, 16, 8, 5, 14, 3 Original array

10, 17, 15, 13, 4, 12, 7, 9, 16, 8, 5, 14, 3 After the first pass

10, 15, 17,13,4,12,7,9,16,8,5,14,3 After the second pass

10, 13, 15, 17, 4, 12, 7, 9, 16, 8, 5, 14, 3 After the third pass

4, 10, 13, 15, 17, 12, 7, 9, 16, 8, 5, 14, 3 After the 4th pass

4, 10, 12, 13, 15, 17, 7, 9, 16, 8, 5, 14, 3 After the 5th pass

4, 7, 10, 12, 13, 15, 17, 9, 16, 8, 5, 14, 3 After the 6th pass

4, 7, 9, 10, 12, 13, 15, 17, 16, 8, 5, 14, 3 After the 7th pass

4, 7, 9, 10, 12, 13, 15, 16, 17, 8, 5, 14, 3 After the 8th pass

4, 7, 8, 9, 10, 12, 13, 15, 16, 17, 5, 14, 3 After the 9th pass

4, 5, 7, 8, 9, 10, 12, 13, 15, 16, 17, 14, 3 After the 10th pass

4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 3 After the 11th pass

3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17 After the 12th pass

1. (2 pt) Show intermediate steps of sorting the array with Merge Sort. Show the result after each recursive call to the merge sort routine.  
   17, 10, 15, 13, 4, 12, 7, 9, 16, 8, 5, 14, 3 Original array

10, 17, 15, 13, 4, 12, 7, 9, 16, 8, 5, 14, 3

10, 17, 13, 15, 4, 12, 7, 9, 16, 8, 5, 14, 3

10, 13, 15, 17, 4, 12, 7, 9, 16, 8, 5, 14, 3

10, 13, 15, 17, 4, 12, 7, 9, 16, 8, 5, 14, 3

10, 13, 15, 17, 4, 7, 12, 9, 16, 8, 5, 14, 3

4, 7, 10, 12, 13, 15, 17, 9, 16, 8, 5, 14, 3

4, 7, 10, 12, 13, 15, 17, 9, 16, 8, 5, 14, 3

4, 7, 10, 12, 13, 15, 17, 8, 9, 16, 5, 14, 3

4, 7, 10, 12, 13, 15, 17, 8, 9, 16, 5, 14, 3

4, 7, 10, 12, 13, 15, 17, 8, 9, 16, 3, 5, 14

4, 7, 10, 12, 13, 15, 17,3, 5, 8, 9, 14, 16

3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17