

Algorithm for Merge Sort

Merge Sort (arr[], l, r)

If $r > l$

Step1: Find the middle point to divide the array into two halves

Middle $m = l + (r-l)/2$

Step2: Call merge sort for the first half

Call merge sort (arr, l, m)

Step3: Call merge sort for second half

Call merge sort (arr, m+1, r)

Step4: Merge the two halves sorted in Step2 and Step3

Call merge (arr, l, m, r)

EXAMPLE:

