ALGORITHM

**MergeSort(arr[], l, r)**

If r > l

**1.** Find the middle point to divide the array into two halves:

middle m = (l+r)/2

**2.** Call mergeSort for first half:

Call mergeSort(arr, l, m)

**3.** Call mergeSort for second half:

Call mergeSort(arr, m+1, r)

**4.** Merge the two halves sorted in step 2 and 3:

Call merge(arr, l, m, r)