Group A:

Implement the following static method in Merge Sort (Follow the skeleton given in the VLE):

private static void merge (int[ ] a, int lo, int mid, int hi);

Precondition: Array a[] has at least mid + hi components starting at a[lo]. The first lo (Lowest) elements (from a[lo] to data[lo+mid-1]) are sorted from smallest to largest, and the last hi (last)elements (from a[lo + mid] to a[lo+mid+hi-1]) are also sorted from smallest to largest.

Post condition: Starting at a[lo, mid + hi] elements of the array a[] have been rearranged to be sorted from smallest to largest.