Name: Vivek Pundkar Division: C Batch: 3

Title: Divide and Conquer Merge Sort

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Algorithm:

Merge Sort Algorithm-

mergeSort(int arr[], int i, int j)

    if (i < j)

        int mid = i + (j - i) / 2;

        mergeSort(arr, i, mid);

        mergeSort(arr, mid + 1, j);

        merge(arr, i, mid, j);

The Merge Sort function divides the array into two halves until we get a sub-array of only 1 element. After dividing the array into sorted subarray the merge function is called, this function combines sorted subarray into array.

To sort

Analysis of Algorithm: