Implementation of Mergesort:-

Following are the functions used in the program:-

1. merge(): This function is used to merge two subarrays. It takes two arrays as left and right, where it stores the entire array in two fragments. Then it sorts them and puts back the sorted order in the original array.
2. mergeSort(): This function is called recursively to sort the subarray.
3. main(): Program execution starts from the main function. It takes input from the files and accordingly sorts the elements in the array, as per the choice of the user. It also prints the time it takes to execute the quicksort() function.

OUTPUT: