Design and analysis of algorithms lab manual

Program-1:

(1)Write a java program to implement Merge sort algorithm for sorting a list of integers in ascending order.

Program code:

```
import java.util.Arrays;
public class MergeSort {
    public static void main(String[] args) {
        int[] array = {12, 11, 13, 5, 6, 7};
        System.out.println("Original Array: " + Arrays.toString(array));
        mergeSort(array, 0, array.length - 1);//Sorting the array
        System.out.println("Sorted Array: " + Arrays.toString(array));
    }
    public static void mergeSort(int[] array, int left, int right) {//
        if (left < right) {
            int mid = (left + right) / 2;
            mergeSort(array, left, mid);
            mergeSort(array, mid + 1, right);
            merge(array, left, mid, right);
        }
    }
    public static void merge(int[] array, int left, int mid, int right) {
        int n1 = mid - left + 1;
        int n2 = right - mid;

        int[] L = new int[n1];
        int[] R = new int[n2];
        for (int i = 0; i < n1; ++i)
            L[i] = array[left + i];
```

Algorithms Lab Manual

Annelies Wilder-Smith

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