Merge Soft Algorithm Pre-Lab #3

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CS 303 Algorithms and Data Structures September 10, 2014

1. Problem Specification

The goal of this pre-lab assignment is to rearrange elements from a list using the Merge Soft algorithm. The list is {38,27,43,3,9,82,10}.

2. Program Design

For a Merge Sort we first need to split the big list into separated elements in a recursive way and then build the array in the inverse way again but with all the elements sorted.

The following steps were required to develop this algorithm:

- a) Discover the middle element
- b) Split the array into two new arrays: one with the elements from the right side and another with the elements from the left side
- c) Do this recursively until get only separated elements
- d) Starts doing the inverse building new small arrays until reach the original size, but with all the elements sorted

2. Results

7) {3, 9, 10, 27, 38, 43, 82}**