
Activation Records, Divide and Conquer, Recursive Algorithms

Sorting

- **Sorting is the process of arranging a sequence of objects into order (either increasing or decreasing)**
- **Mergesort is a sorting algorithm**

Divide and Conquer, Merge Sort, Recursion

■ Divide and Conquer

- **Divide**: break an instance of a problem into several smaller instances of the same problem
- **Conquer**: Compute solutions for the smaller instances
- **Combine**: Use the solutions to the smaller instances to obtain the solution of the original instance

■ **Merge Sort**: A sorting algorithm that uses divide and conquer.

■ **Recursive Algorithm**: An algorithm that calls itself.