

**Decrease and Conquer** technique with a simple example algorithm:

Insertion Sort Pseudocode and dry run

Proof of Correctness: Loop Invariant

Analyzing algorithms with RAM Model (Best, Average, Worst)

Cormen chapter no 2: 2.1 & 2.2

A. Leviton chapter no 4: 4.1

**Divide and Conquer** technique with a simple example algorithm:

Merge Sort Pseudocode and dry run

Analyzing algorithms with RAM Model (Best, Average, Worst)

Cormen chapter no 2: 2.3

A. Leviton chapter no 5: 5.1

**Practice Questions:**

Cormen 2.1-1, 2.1-3, 2.2-2, 2.3-1, 2.3-2