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