

Mathematical Analysis of non-recursive algorithms

Basic Operation Identification

Expressing the loops in summation

Any chapter no 2: 2.3

Mathematical Analysis of Recursive algorithms

Basic Operation Identification

Expressing the recurrence in terms of basic operation

Any chapter no 2: 2.4

Solving Recurrences

1. Substitution Method

2. Recurrence Tree method

3. Master Theorem

Cormen chapter no 4: 4.3, 4.4 and 4.5