# Computer Algorithm Topic ( Mid )

* Slide 2: Introduction to Algorithm

- Definition, Application, Characteristics

- How to design an algorithm

- Time & Space Complexity

- Advantage & Disadvantage of algorithm

* Slide 3: Searching Algorithm

- Linear Search

- Binary Search

- Time Complexity of Linear & Binary Search

* Slide 4: Asymptotic Notations

- Complexity analysis ( end of the page )

( don’t know any other topic about this slide )

* Slide 5: Complexity Analysis of Recurrence Relation

- Definition

- Solving Techinque ( Substitute method & Master Method )

* Slide 6: Sorting Algorithm

- Application & Advantage of Sorting

- Bubble sort

- Insertion sort

- Selection sort

- Complexity of these sorting

* Slide 7: Divide & Conquer (1)

- Key characteristics

- Pros & Cons

- Merge sort & complexity analysis of this

* Slide 8: Divide & Conquer (2)

- Quick sort & complexity of this

- which one is efficient ( quick sort or merge sort) explain by complexity

* Slide 9: Divide & Conquer (3)

- Brute Force Approach

- Divide & Conquer

- Kadane’s algorithm