**Step 0 :**

* Understand about pointers in C++, structures or classes
* Learn how to calculate worst case, best case , average case time complexities

**Step 1 :**

* Learn few basic *sorting* algorithms along with their use case and time complexity.
  + Bubble sort
  + Insertion sort
  + Selection sort
* Learn *searching* algorithms along with time complexity.
  + Linear Search
  + **Binary Search**

**Step 2 :**

* **Stack**
* **Queue**
* **Single Linked List**(Insert at front,back,middle; Delete at front back middle)
* Double Linked List
* Circular Linked List

**Step 3 :**

* Learn the following approaches in algorithms
  + Divide and Conquer (**Merger Sort**, **Quick Sort**, Binary Search are some examples)
  + Greedy method (**Knapsack**, **Prim’s algorithm**, **Kruskal’s algorithm, Dijkstra, Bellmanford**)
  + Dynamic programming (**0/1 Knapsack, Travelling Salesman Problem**, **Coin change**)
* Backtracking (**N Queens problem**)

**Step 4 :**

* Binary Tree
* **Binary Search Tree**
  + Height of a Tree
  + **Tree Traversal**
    - BFS
    - DFS
  + Searching an element
* **AVL Tree**
* **Hashing**

**Where to study from?**

[GeeksforGeeks | A computer science portal for geeks](http://www.geeksforgeeks.org/)

[Data Structures and Algorithms | Coursera](https://www.coursera.org/specializations/data-structures-algorithms)

[Video Lectures | Introduction to Algorithms (SMA 5503) | Electrical Engineering and Computer Science | MIT OpenCourseWare](https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-046j-introduction-to-algorithms-sma-5503-fall-2005/video-lectures/)

Note: If detailed answer or specific approach is needed, feel free to message me on quora.