Must Do Algorithms For Placements

**Searching And Sorting**

**Binary Search**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118621/offering/1377974>

**Selection Sort**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118822/offering/1382168>

Array

Linked List

**Bubble Sort**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118822/offering/1382169>

Array

Linked List

**Insertion Sort**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118822/offering/1382170>

Array

Linked List

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118786/offering/1381233>

**Standard Algorithms**

**Kadane's Algorithm**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118820/offering/1381861>

**Dutch National Flag Algorithm**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118820/offering/1381861>

**Two Pointers Technique**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118509/offering/1376553>

**Sliding Window Algorithm**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118509/offering/1376573>

**Recursion And Backtracking**

**Recursion**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118522/offering/1380913>

**Divide And Conquer**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118522/offering/1381570>

Merge Sort

Array

Linked List

Quick Sort

Array

Linked List

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118786/offering/1381230>

**Backtracking**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118522/offering/1381572>

**Slow And Fast Pointers Technique In Linked List**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118786/offering/1382050>

**Greedy Algorithms**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118520/offering/1380954>

**Standard Problems**

Fractional Knapsack

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118520/offering/1380966>

Gas Tank

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118520/offering/1380967>

**Minimize/Maximize Problems**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118520/offering/1380959>

**Sorting Based Problems**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118520/offering/1380964>

**Dynamic Programming**

**Memoization**

**Iterative Solutions**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118824/offering/1382148>

**Graph Algorithms**

**BFS & DFS**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118511/offering/1376644>

**MST - Minimum Spanning Tree**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118511/offering/1376645>

Kruskal's Algorithm

Prim's Algorithm

Cycle Detection

Union Find Algorithm

**Djikstra's Shortest Path Algorithm**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118511/offering/1376646>

**Topological Sorting**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118511/offering/1376647>

**Bellman Ford Algorithm**

**Floyd Warshall Algorithm**

**Other Important Algorithms**

**Counting Sort**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118822/offering/1382173>

**Heap Sort**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118823/offering/1382145>

**String Algoritms**

<https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118796/offering/1382154>

KMP

Z Algorithm