

1. OOP
2. Recursion
3. Backtracking
4. Dynamic Safe array
5. Linked List
6. Stack
7. Queue
8. Priority queue
9. Linear Search
10. Binary Search
11. Jump search
12. Exponential search
13. Interpolation Search
14. Bubble sort
15. Shaker sort
16. Insertion sort
17. Selection sort and others
18. Quick sort
19. Merge sort
20. Heap sort
21. Count sort
22. Radix Sort
23. Binary Tree
24. Binary Search Tree
25. AVL Trees
26. B Trees
27. B+ Trees
28. Scapegoat trees
29. Red Black Trees
30. Hashing :
 - Closed Channing
 - Linear Probing
 - Quadratic Probing
31. Graphs
 - Adjacency Matric
 - Adjacency List
 - Incidence Matrix
 - Shortest Path
 - Minimum Spanning Trees
 - BFS (Breadth first search)
 - DFS (Depth first search)
 - Algorithms
 - Dijkstra algorithm
 - Prim's algorithm

- kruskal's algorithm
- Ford's algorithm
- Label correcting algorithm
- Cycle detection
- Di-Graph cycle detection

32. Union Find data structure