1. Quicksort O(nlogn)

2. Mergesort O(nlogn)

3. LSC dnc

4. knapsack greedy

5. travelling salesman greedy

6. shortest path greedy Djisktra O(ElogV)

O(E+logV) (use heap)

7. prim O(V^2) (adjacency matrix)

O(VlogV + ElogV) = O(ElogV) (heap or adjacency list)

8. kruskal O(ElogE) = O(ElogV)

9. graph color

10. jobs scheduling

11. knapsack dp O(n\*w)

12. LSC dp O(n)

13. LCS dp O(l1\*l2)

14. Floyd O(n^3)

15. N-Queens O(n!)

16. knight tour O(k^n) (k: small constant)

17. knapsack backtrack

18. travelling salesman backtrack

19. DFS O(V)

O(V^2) (adjacency matrix)

O(V+E) (adjacency list)

20. knapsack BB

21. travelling salesman BB