1. 0/1 knapsack problem dynamic and branch bound

2. the sum of the subset problem

3. traveling salesman problem dynamic, FIFO, lc branch and bound

4. graph coloring problem

5. all pairs shortest path problem

6. Hamiltonian cycle

7. finding the least cost of operation for string editing

8. 4 and 8-queen problem

9. p and np problem, np-complete, np hard problem, and cook's theorem