1. recursion theorem – 2 versions
2. a self-copying program
3. 2 ways to represent a graphs
4. how to compute the transitive closure of a binary relation
5. a closed semiring
6. Euler cycle problem / Hamiltonian cycle problem / Traveling salesman problem
7. Warshall’s algorithm, Floyd’s algorithm, Dijkstra’s algorithm
8. Efficient / inefficient algorithms
9. K-clique problem (search / decision)
10. 3 cnf sat problem
11. P / NP / NPC
12. Prim’s algorithm, Kruskal’s algorithm
13. Graph, tree, spanning tree
14. A matching
15. A bipartite graph
16. Max flow problem, max bipartite graph matching problem
17. Euclidean algorithm