

## **Chapter 5 Backtracking**

Problem 5.1 Subset Sum

Problem 5.2 Minimum Length Board Arrangement

Problem 5.3 Minimum Weight Machine Design

Problem 5.4 Maximum Preferences

Problem 5.5 No Separation Dictionary

Problem 5.6 No Sum Sets

Problem 5.7 Instant Insanity

Problem 5.8 Integer Transformation

Problem 5.9 Latin squares

Problem 5.10 Jewel Arrangements

Problem 5.11 Latin squares with Repetition

Problem 5.12 Maze of Romeo and Juliet

Problem 5.13 Work Assignment

Problem 5.14 Hi-Q

Problem 5.15 Pentominoe Configuration

Problem 5.16 Board Permutation

Problem 5.17 Optimal Scheduling

Problem 5.18 Computation without Priority

Problem 5.19 Museum Guards

Problem 5.20 Unique Museum Guards

Problem 5.21  $2 \times 2 \times 2$  Rubik's Cube

Problem 5.22 Rubik's Cube

Problem 5.23 24 Points

Problem 5.24 m Points

Problem 5.25 Railroad Cars

Problem 5.26 Railroad Cars with Many Holding Tracks

Problem 5.27 Tribe Troops

Problem 5.28 Corroded Expressions

Problem 5.29 Complete Circle Sequences

Problem 5.30 Discrete 01 Strings

Problem 5.31 Painting Robots

Problem 5.32 Subset Trees

Problem 5.33 0-1 Knapsack

Problem 5.34 Permutation Trees

Problem 5.35 General Search

Problem 5.36 Shortest Addition Chains

Problem 5.37  $n^2-1$  Puzzle