Homework 5 Due day: April 14

All solutions should be typed, using Latex preferably. Briefly explain the correctness and complexity of your solution.

(1) Chapter 8, 1
(2) Chapter 8, 3
(3) Chapter 8, 5
(4) Chapter 8, 14
(5) Chapter 8, 21
(6) Refer to card game (the second last page of the second set of slides) with two players A and B. Suppose A is the first player. Given n (number of cards), write a pseudo for a winning strategy (for A) and then program the strategy. Show the interactions between A and B (via program outputs). Your program also allows choices from B. If there is no winning strategy for A, the program just prints “no winning strategy”. Show cases for n=10, 34, and 52.