

BU CAS CS 320 (SPRING SEMESTER, 2002)
CONCEPTS OF PROGRAMMING LANGUAGES

Assignment 7

Due: Wednesday, the 17th of April 2002

Total: 250 points

Exercise 1 (10 points) Please do Exercise 3.39 in the textbook on page 306.

Exercise 2 (10 points) Please do Exercise 3.42 in the textbook on page 307.

Exercise 3 (50 points) Please do Exercise 3.47 in the textbook on page 313.

Exercise 4 (30 points) Please do Exercise 3.59 in the textbook on page 333.

Exercise 5 (50 points) Please do Exercise 3.62 in the textbook on page 334.

Exercise 6 (50 points) Please implement the *n*-queen problem in the following style: Given a number *n*, the function `nqueen` takes *n* and returns a procedure `p0` with no arguments; if `p0` is called, it returns a procedure `p1` after printing out a solution to the *n*-queen problem; if `p1` is called, it returns a procedure `p2` after printing out a solution to the *n*-queen problem; this process continues until all solutions to the *n*-queen problem are printed out, when the (last) returned procedure is `(lambda () "no more solutions")`.

Exercise 7 (50 points) Please do Exercise 3.80 in the textbook on page 349.