CS 3510: Advanced Algorithms/Data Structures

Spring 2018 Assignment 7

Problems due as noted.

Assignment

Problems identified by x.y(z) denote the problem “y”, in chapter “x” of the textbook, with part “z”. If “z” is not noted, then the entire problem is required.

Due Apr 20

• 7.1 - Graphically solve the LP. Show the graph, the table of objective function value at each vertex of the feasible region, and the optimal vertex and object function value.
• 7.2 - Story problem to LP. (No need to solve.) Show the objective function and the constraints.

Due Apr 23

• 7.5 - a) Story problem to LP, b) solve graphically.
• 7.16 - Use software to solve LP.

Due Apr 25

• 7.4 - a) Story problem to LP, b) solve graphically.
• 7.11 - a) Convert LP to dual, b) solve both graphically.

Submission

• For the written work, at the beginning of class, on the due dates, submit paper copies of your solutions.