COMP 5030 Algorithms Homework 2

Related reading: Chapter 15, 16

Either typewrite or handwrite legibly your answers.

**Problem 1.** Problem 15-9 (page 410). Also write the pseudo-code for your algorithm.

Hint: You may assume the L array is sorted. Then prepend 0 as the first element of L and append n as the last element of L. This preprocessing could make it easy to express the problem in a recursive form. Define the subproblems on indices (i,j) of L.

**Problem 2.** Exercise 16.1-1 (page 421)

**Problem 3.** Exercise 16.2-3 (page 427)

**Problem 4.** Exercise 16.3-5 (page 436)