1. Find the optimal parenthesization for a matrix-chain product whose sequence of dimensions is: (2, 3, 2, 2, 1). (Don’t forget to include the table used to compute your result)

2. Exercise 15.2-5 (Counting number of ways to Parenthesizing)

3. Exercise 15.4-1 (“Determine an LCS”)

4. Exercise 15.4-5 (note: monotonically increasing means non-decreasing, e.g. 1, 2, 2, 4, 5, 5, 7)

5. Exercise 15.4-6 (note: you can combine your solutions to this problem and the previous one, but solving the previous problem first will help with this problem.

6. Problem 15-4

7. Problem 15-5

8. Exercise 16.1-4

9. Exercise 16.2-4

10. Exercise 16.2-5