EL9343 Homework 6
(Due December 15th, 2016)

All problem/exercise numbers are for the third edition of CLRS text book

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1. What is an optimal Huffman code for the following set of symbols with associated frequencies?
   a:13, b:7, c:2, d:9, e:5, f:8, g:3, h:11

2. Problem 16-1

3. Run Kruskals and Prims algorithms on the graph in Figure 1. Show steps similar to Figure
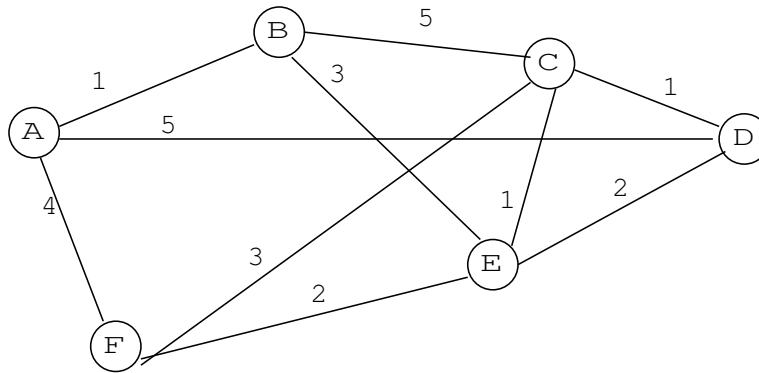   23.4 and 23.5 in the textbook. Use node A as root for Prim's algorithm.

Figure 1: Undirected Graph for Question 3

4. Problem 23-1

5. Exercise 24.1-1

6. Exercise 24.2-1

7. Exercise 24.3-1 (only use z as the source)

8. Exercise 24.3-6

9. Exercise 25.2-1

10. Exercise 25.2-2