CIS 315, Introduction to Algorithms
Spring 2009

Assignment 2

due Wednesday, April 22, 2009

1. exercise 23.1-2, p 566 [4 points]
2. exercise 23.1-5, p 566 [6 points]
3. Consider the graph given to you (available separately). You will be building a MST for this graph in two ways. When there is a tie on the edge weights, consider the edges or nodes in alphabetical order. (For an edge, this means (a,f) before (b,c) and (c,d) before (c,g).)
   (a) Use Kruskal’s method.
   (b) Use Prim’s method.
   [8 points]
4. exercise 23.2-8, p 574 [6 points]
5. exercise 23-4, p 577 [9 points]
6. exercise 24.1-1, p 591 [6 points]
7. exercise 24.1-3, p 591 [4 points]

Total: 43 points