

# CSCI 310, Data Structures, Summer 2009

## Assignment 9 (30 points)

1. (15 points) Complete the following Exercises from Chapter 5 in the textbook:  
5.1, 5.2, 5.8
2. (5 points) Consider hashing with the Modulo Table Size hash function, a hash table of size 7, and linear probing to resolve collisions. Show the contents of the has table after inserting the keys 17, 15, 11, 24, and 8.
3. (5 points) Show the contents of the hash table from Question 2 if separate chaining was used rather than linear probing. Once again, the keys 17, 15, 11, 24, and 8 are inserted.
4. (5 points) Consider hashing with the Modulo Table Size hash function, a hash table of size 11, and quadratic probing to resolve collisions. Show the contents of the has table after inserting the keys 30, 108, 1053, 123, 821, 1319, and 515.