

CS 2502/486 2007 Assignment 1

Due: October 12

Note that Question 6 below requires programming. Further instructions will be provided in a tutorial.

1. **[15 pts]** Exercise 1 of Chapter 2 in the book.
2. **[15 pts]** Exercise 2 of Chapter 3 in the book.
3. **[20 pts]** Exercise 2 of Chapter 4 in the book.
4. **[20 pts]** Exercise 5 of Chapter 4 in the book.
5. **[30 pts]** Exercise 6a, 6b, 6c, and 6d of Chapter 4 in the book.
Note: Do not do Exercise 6e!
6. **[50 pts]** Exercise 1 of Chapter 5 in the book.
Hint: To get an overall linear time behaviour, you will need to build data structures where you can go in *constant* time from certain data items to other associated ones. In MIT-Scheme, see hash tables; in SWI-Prolog, see the `hash/1` predicate.