## CISC280 Spring 2007 Lab 7

In class, we investigated the idea of tagging sets with identifiers so that we could work with combinations of different kinds of sets, for example

(union (attach-tag 'ord '(1 2 3)) (attach-tag 'unord '(2 3 4)))

1

Write union, intersection, and adjoin as generic procedures which will take sets represented as trees, ordered lists, or unordered lists. The procedures will use the procedures from section 2.4.2 of the text to attach tags, inspect tags, and access contents of sets which will be tagged ord, unord, or tree. Try to minimize the big O of each procedure when you are working with mixed types.

If you need to submit (see syllabus if you are unsure) submit your code file(s) and a script of several well-chosen test cases via MyCourses (due Thursday midnight) and on paper (to your TA's mailbox Friday by 1 p.m.) to receive full credit.

When you use MyCourses, remember that you can "upload" files multiple times, but you only click "submit" once.