CSCE 531 Spring 2007

Quiz 14

Assigned Wednesday, 07-04-25

Consider the following Lisp function:

```
(label member (lambda (x lat)
(cond
   ((null. lat) '())
   ((eq x (car lat)) 't)
   ('t (member x (cdr lat))))))
 1. What is (member 'foo '())? Answer: ()
```

- 2. What is (member 'foo '(foo bar))? Answer: t
- 3. What is (member 'foo '(bar foo goo))? Answer: t
- 4. In your words, what does member do? (Hint: "lat" stands for "list of atoms.") Answer: It returns t it its first argument (an atom) is a member of its second argument (a list of atoms). It returns () otherwise. Therefore, it implements a test for membership in a list of atoms.