CSCE 330 Fall 2006

Quiz 19 (In-class Exercise)

Assigned Thursday, 06-12-07

Consider the following Prolog program:

```
member(A, [A|_]).
member(A, [_|L]) :- member(A,L).
```

What is Prolog's answer to the following queries?

1. `?- member(a, [b,c,a,d]).`

   Answer: Yes.

2. `?- member(a, []).`

   Answer: No.

3. `?- member(X, [a,b,c]).`

   Answer:

   ```
   X = a ;

   X = b ;

   X = c ;

   No
   ```

   (Or any single line except the last one)

4. `?- member(a, [b,c,X,d]).`

   Answer:

   ```
   X = a ;

   No
   ```