

**CSCE 330 Fall 2007**  
**QUIZ 19 (IN-CLASS EXERCISE)**  
Assigned Thursday, 07-12-06

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