QUIZ!
Quiz Stuff

Use a full sheet of 8½x11" paper. (Half sheet? Half credit!)

Put your last name and NetID in the far upper left hand corner of the paper, **where a staple would hit it.** (It helps us sort quizzes!)

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Mitchell, whm
```

No need to write out questions. It's ok to abbreviate answers.

Numbering responses may help you avoid overlooking a question; it's ok to go ahead and pre-number your sheet.

3 minutes; 3 questions, 3 points.
1. What does the following query output?

   
   ```prolog
   ?- member(X, [1,2,3]), writeln(X), X = 2, !,
       member(Y, [a,b,c]), writeln(Y), !, fail.
   ```

2. Write a query that prints "hello" an endless number of times.

3. What is the output of the following query?

   ```prolog
   ?- assert(a(1)), retractall(a(2)), assert(a(2)), a(X), writeln(X), fail.
   ```
Answers

Question 1:

?- member(X,[1,2,3]), writeln(X), X = 2, !,
    member(Y,[a,b,c]), writeln(Y), !, fail.

1
2
a
false.

Question 2:

?- repeat, write(hello), fail.

Question 3:

?- dynamic(a/1).
true.

?- assert(a(1)), retractall(a(2)), assert(a(2)), a(X), writeln(X), fail.
1
2
false.