

QUIZ!

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

Put only your last name in the far upper left hand corner of the sheet, where a staple would hit it. It's OK to write **BIG**, just start in the corner!

*Mitchell*

**AVOID A ½-POINT DEDUCTION!**

Keep answers short! Avoid full sentences. Feel free to abbreviate.

2 questions; 3 minutes; 3 points.

Numbering responses may help you avoid overlooking a question.

You may go ahead and number your paper.

## Quiz 12, April 19, 2016

3 minutes; 1 + 2 points

1. Write a predicate **same**(?A, ?B, ?C) that expresses the relationship that **A**, **B**, and **C** are equal.

```
?- same(1,1,1).  
true.
```

```
?- same(a,X,a).  
X = a.
```

2. Write a predicate **p**(+L) that prints the elements of **L** that are integers, one per line. (Use **integer**(?X) to test.) Be sure it always succeeds!

```
?- p([10,b,c,2,4]).  
10  
2  
4  
true.
```

## Solutions

1. Write a predicate **same** (?A, ?B, ?C) that expresses the relationship that **A**, **B**, and **C** are equal.

```
same (X, X, X) .
```

2. Write a predicate **p** (+L) that prints the elements of **L** that are integers, one per line.

```
p (L) :- member (E, L) , integer (E) ,  
          writeln (E) , fail .  
p ( _ ) .
```