

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 paper, where a staple would hit it. (It's OK to write **BIG**, just start in the corner!)

Mitchell

AVOID A ½-POINT DEDUCTION!

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

Feel free to abbreviate.

3 questions; 3 minutes; 3 points.

Quiz 13, April 13, 2015
3 minutes; 3 points total

1. Write an example of a predicate indicator.

2. Here is a Haskell function:

```
double x = x * 2
```

Write a Prolog version of **double**.

3. Write a Prolog predicate **f** that has this behavior:

```
?- f(X).
```

```
X = 1 ;    (user typed semicolon)
```

```
X = 2 ;    (user typed semicolon)
```

```
X = 4.
```

Don't overthink it! Do the simplest thing that works!

Solutions

1. *Write an example of a predicate indicator.* `write/1`

2. Haskell: `double x = x * 2`

Prolog: `double(X,R) :- R is X * 2.`

3. *Write a Prolog predicate f that has this behavior:*

$?- f(X).$

$X = 1 ;$

$X = 2 ;$

$X = 4.$

Solution: `f(1). f(2). f(4).`