QUIZ!

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

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



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

3 questions; 3 minutes; 3 points plus a half-point EC.

Question 3 is worth two points.

Numbering responses may help you avoid overlooking a question. You may go ahead and number your paper.

Quiz 3, February 2, 2016
3 minutes;
$$\frac{1}{2} + \frac{1}{2} + 2$$
 points

- 1. Add parentheses to the following expression to show the order of operations: **a b** + **x y z**
- 2. The **length** function produces the length of a list. What's the type of **length**?
- 3. Write a function **nzs** that returns the number of zeroes in a list. (2 points!)

EC ½ point:

Write a function **f** whose type is inferred to be **a** -> **a** -> **a**. Be sure that **a** doesn't have a class constraint, like **Eq a**.

Solutions

- 1. Add parentheses to the following expression to show the order of operations: **a b** + **x y z**(**a b**) + ((**x y**) **z**)
- 2. The length function produces the length of a list. What's the type of length? [a] -> Int
- 3. Write a function **nzs** that returns the number of zeroes in a list. Two solutions:

 $EC \frac{1}{2}$ point: Write **f** whose type is inferred to be **a** -> **a** -> **a**. **f x y** = **head** [**x**, **y**]