CSC402 - Assignment #2
Due Sunday 10/1

Problem:

The idea is to write the same reader for our exp0 language as in Assignment #1 but this time we will use Ply to generate the parser. As before, the reader should read *valid* programs written in exp0 and output the number of print statements (p statements) found in the program.

1. A good spot to start are the exp0_gram.py and exp0_lex.py files in the 'code' folder.

2. Add your actions with the necessary code in order to count the statements.

3. Demonstrate that your reader works by processing the following programs:

   ```
   s x 1;
   s y 2;
   p (+ x y);
   ```

   and

   ```
   s x 1;
   p x;
   s y 2;
   p y;
   p (+ x y);
   ```

4. Your reader should reject the following program:

   ```
   s x 1;
   s y 2;
   p (+ x p);
   ```

The reader should be written in Python using Ply. Hand in your source code together with a Jupyter Notebook that shows that your program works. To submit your work create a zip file of your sources and the notebook and submit it through Sakai. Assignments submitted in formats other than Jupyter Notebooks will not be graded and a failing grade will be recorded.