CS 4700 Program 2 Ruby Programming (15 Points)
Spies

For each person in your group, you want to assign a "spy" such that no one spies on themselves or someone with the same last name. You don't want a person to spy on someone who is also spying on them (as they may discover the spying).

Input:
A file you will name "people.txt" of the form:
Luke Skywalker <luke@theforce.net>
Leia Skywalker <leia@therebellion.org>
John Wayne <John@Western.com>
Clark Kent <super.@gmail.com>
Lois Ken <super2@gmail.com>
Pop Eye <popeye@gmail.com>
Private Eye <wise@gmail.com>
Robotic Eye <me@gmail.com>
Vicki Allan <Vicki.Allan@usu.edu>
Joe Allan <joeTheAllan@usu.edu>
Terrance Allan <Terry.All@gmail.com>
Philip Allan <PhilDoll@gmail.com>

Assume all names have one first name and one last name. Verify that the form of the email address follows expected rules. A bad email address will be replaced with "BAD EMAIL", but otherwise used. You are to print out a list of spy assignments.

Rules for email address:
1. Exactly one '@' sign between local-part and domain-part.
2. Character "." may not be first or last character of either local-part or domain-part.
3. Character "." cannot appear two or more times consecutively (e.g. John..Doe@example.com)
4. Only the following characters are allowed:
   a. Uppercase and lowercase English letters (a–z, A–Z)
   b. Digits 0 to 9
   c. Characters ! # $ % & ' * + - / = ? _ ` { | } ~

Output of the form:
Person Luke Skywalker at <luke@theforce.net> spies on Person Philip Allan at <PhilDoll@gmail.com>
Person Leia Skywalker at <leia@therebellion.org> spies on Person Vicki Allan at <Vicki.Allan@usu.edu>
Person John Wayne at <John@Western.com> spies on Person Leia Skywalker at <leia@therebellion.org>
Person Clark Kent at <BAD EMAIL> spies on Person Robotic Eye at <me@gmail.com>
Person Lois Ken at <super2@gmail.com> spies on Person Pop Eye at <popeye@gmail.com>
Person Pop Eye at <popeye@gmail.com> spies on Person Joe Allan at <joeTheAllan@usu.edu>
Person Private Eye at <wise@gmail.com> spies on Person Clark Kent at <BAD EMAIL>
Person Robotic Eye at <me@gmail.com> spies on Person Terrance Allan at <Terry.All@gmail.com>
Person Vicki Allan at <Vicki.Allan@usu.edu> spies on Person John Wayne at <John@Western.com>
Person Joe Allan at <joeTheAllan@usu.edu> spies on Person Luke Skywalker at <luke@theforce.net>
Person Terrance Allan at <Terry.All@gmail.com> spies on Person Private Eye at <wise@gmail.com>
Person Philip Allan at <PhilDoll@gmail.com> spies on Person Lois Ken at <super2@gmail.com>

Things to try:
1. Create a class People. Use to_s to convert a person to a string.
2. Create an array of class People.
3. You can randomly arrange an array by using `sort_by { rand}`
   ```ruby
   @spy = @persons.sort_by{ rand}
   ```

4. `@spy = @persons.dup` Duplicates an array

5. Use regular expressions

6. You can assign multiple things at a time (and even swap values)
   ```ruby
   def initialize(first, family, mail)
     @first, @family, @mail = first, family, mail
   end
   ```