**Lab 9 Feedback**

- Recall: `__str__` always returns a String
- Always close files that you read from or write to
- Comments describing your methods, their parameters, what they do, what they return
- Test functions
  - Should test all of a class’s methods

**Lab 11: Three Parts**

- Linux practice:
  - Using the `wc` command
- Social Network extensions
  - Binary search – find people in same network
    - Requires adding `__cmp__` method to Person class
  - Exception handling – handling bad files
  - UI: add search functionality
- Two-dimensional lists
  - Including Connect Four

---

**wc Command**

- **wc**: Word Count
  - Count up the lines of Social Network code from Lab 10
  - Compare with code for this assignment
- Specific directions are in the lab

---

**Social Network, Extended**

- Searching
  - Allows you to search for people by their network
  - Update SocialNetwork and Person classes and UI appropriately

---

**Summary of Modifications to Binary Search**

- Check the `network` of the Person that is at the midpoint
- After found, add to the list of Persons who match
  - Get the Persons before and after that person in the list that have the same network and add to list
- Represent (in method) and handle (in UI) when no People belong to network
- For "most intuitive" results:
  - Lowercase the key
  - Changes algorithm again slightly

---

**Social Network, Extended**

- Exception handling
  - Every place opening a file (in the methods that you wrote), add exception handling
  - Print out error message and return from method
  - Better: return True or False from method
  - True if works
  - Then UI can check what returned and print appropriate message

```python
try:
    # code that could throw an exception
except [error-type]:
    # handle exception appropriately
```

---

**Search2.py**

Mar 31, 2009  Sprenkle - CS111 1

Mar 31, 2009  Sprenkle - CS111 2

Mar 31, 2009  Sprenkle - CS111 3

Mar 31, 2009  Sprenkle - CS111 4

Mar 31, 2009  Sprenkle - CS111 5

Mar 31, 2009  Sprenkle - CS111 6
SocialNetwork Code
- Fix the major problems in your code first
- Or, use the code in the handouts/lab11 directory
  - person.py, social.py, facespace.py

2D List Practice
- Creating, printing, processing 2D list
- ConnectFour
  - Opportunities for extra credit

Reminder
- Give me your final exam envelopes so that I can stuff them