Handshakes

Determinism vs. Non-Determinism

- If no input and no randomness
  - Program always executes the same way with the same output
  - Known as **deterministic**
- Our programs have been deterministic
- Adding the random functions will make our program non-deterministic
  - Executing program multiple times will result in different execution, output

Lab 2 Feedback

- Better code readability!
  - ➢ Better variable names
  - ➢ Descriptive, useful comments
  - ➢ Use blank lines with comments to separate code "blocks"

Pretty Code

```
…
#Make first calculations to ft/s
jenny_ft_s = COURT_LENGTH / jennyspeed
laura_ft_s = COURT_LENGTH / lauraspeed
venus_ft_s = COURT_LENGTH / venusspeed

#Make second calculations to mi/hr
jenny_mi_hr = (jenny_ft_s * SECOND_TO_HOUR) * FEET_TO_MILE
laura_mi_hr = (laura_ft_s * SECOND_TO_HOUR) * FEET_TO_MILE
venus_mi_hr = (venus_ft_s * SECOND_TO_HOUR) * FEET_TO_MILE

#Display output nicely
print "     CISC111 Tennis Pros"
print "------------------------------"
print "\t\t ft/s\t  mi/hr"
print "Laura\t\t%5.2f\t %6.2f" % (laura_ft_s, laura_mi_hr)
print "Jennifer \t%5.2f\t %6.2f" % (jenny_ft_s, jenny_mi_hr)
print "Venus\t\t%5.2f\t %6.2f" % (venus_ft_s, venus_mi_hr)
```

Lab 2 Feedback

- Template string with format specifiers
  - Can include other characters besides format specifier
  - Can have more than one replacement value
  - Examples:
    - print "Venus %20.2f %10.2f" % (fpers, mph)
    - print "%3d|" % (x*y)

Needs to be in parentheses

Lab 2 Feedback

- Remember to remove ~ files before printing
  - ➢ Saves paper because extra file isn't getting printed out