

## Outline for November 1, 2021

**Reading:** §14

**Assignments:** Homework 3, due November 8, 2021

---

1. Review Tower of Hanoi problem for recursion [*hanoi.py*]
2. Pattern matching
  - (a) Regular expressions
  - (b) Atoms: letters, digits
  - (c) Match any character except newline: `.`
  - (d) Match any of a set of characters: `[0123456789]`, `^[0123456789]`, `[0-9]`
  - (e) Repetition: `*`, `+`, `{m,n}`; greedy matching; put `?` after and they match as few characters as possible
  - (f) Match start, end of string: `^`, `$`; `$` matches end of line, also
  - (g) Grouping: `(, )`
  - (h) Escape metacharacters: `\`