Announcements

• Quiz #5 on Friday
• Project #5 due on Saturday
• Some recursion exercises have been posted

• Final Exam: Saturday 5/12
  4:00PM to 6:00PM
  Rooms (see class webpage)
Example – Towers of Hanoi

- Problem
  - Move stack of disks between pegs
  - Can only move top disk in stack
  - Only allowed to place disk on top of larger disk
Example – Towers of Hanoi

- To move a stack of \( n \) disks from peg X to Y
  - Base case
    - If \( n = 1 \), move disk from X to Y
  - Recursive step
    1. Move top \( n-1 \) disks from X to 3\(^{rd} \) peg
    2. Move bottom disk from X to Y
    3. Move top \( n-1 \) disks from 3\(^{rd} \) peg to Y

Iterative algorithm would take much longer to describe!

- Let’s code this up!
Loop Control Statements

- break – immediately terminates the loop

- continue – immediately goes to the top of the loop

Example: BreakAndContinue1.html

BreakAndContinue2.html