

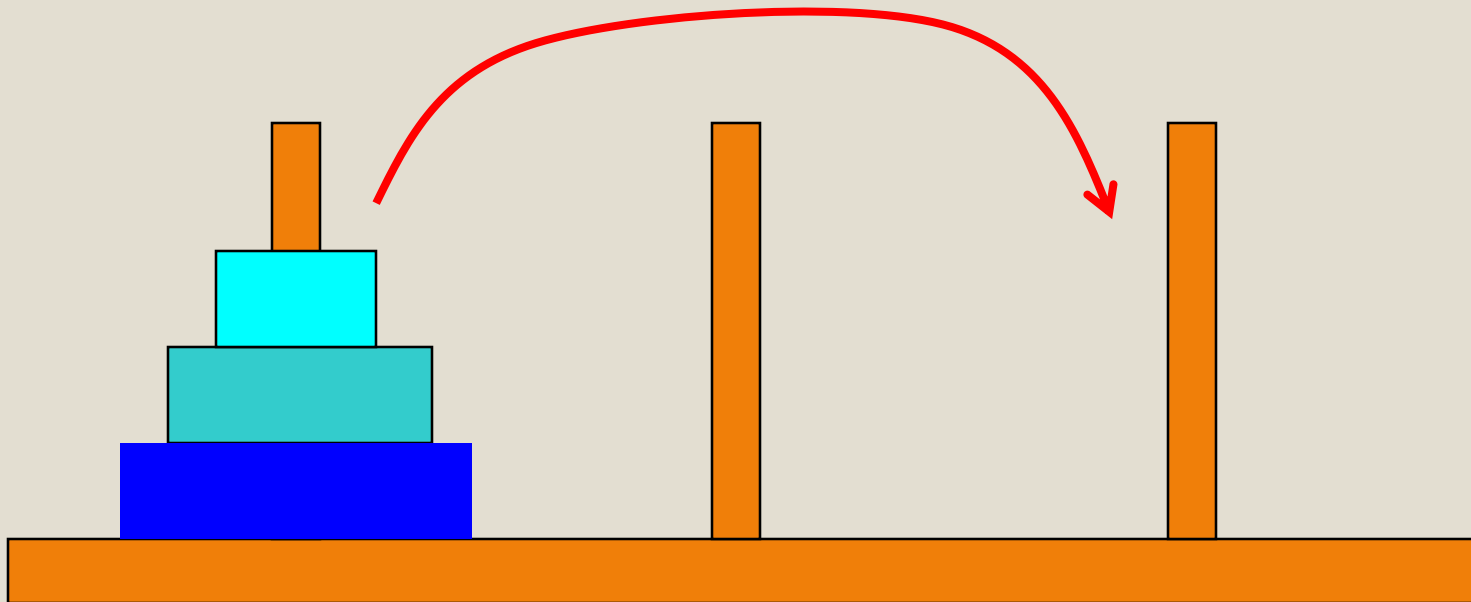
Announcements

- **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 3rd peg
 2. Move bottom disk from X to Y
 3. Move top $n-1$ disks from 3rd 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