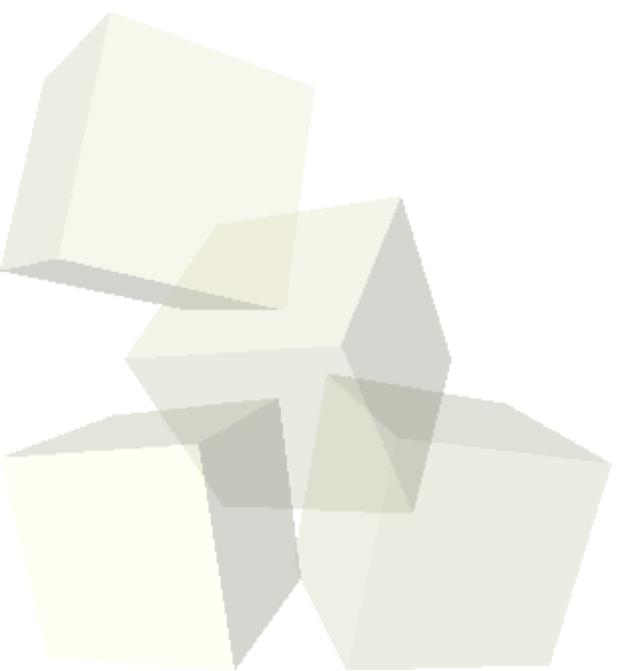




# Recursion

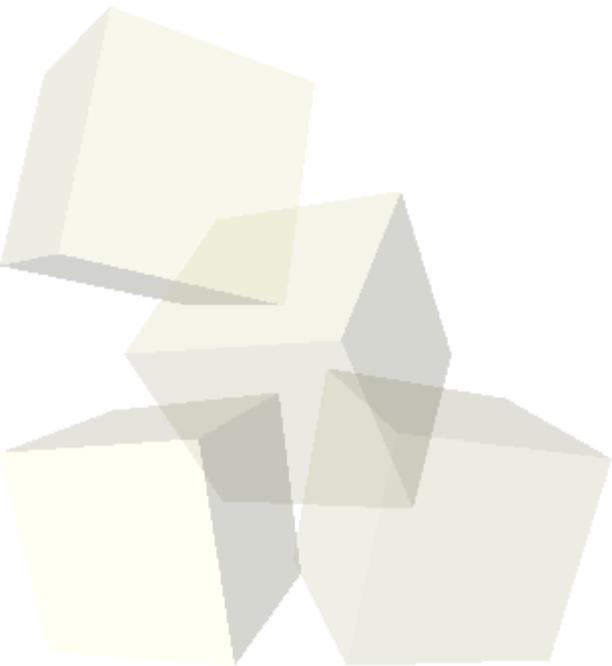
9/21/2007





# Opening Discussion

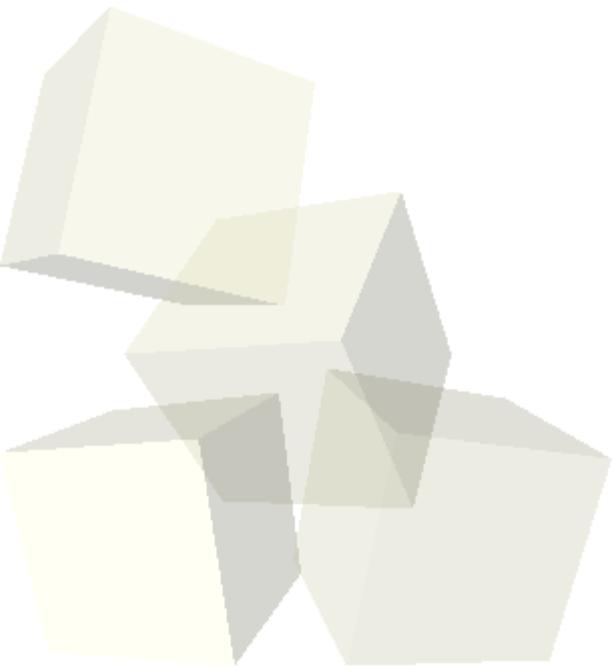
- Let's look at some solutions to the interclass problem.
- Getting user interaction into your project.





# Knife Throwing

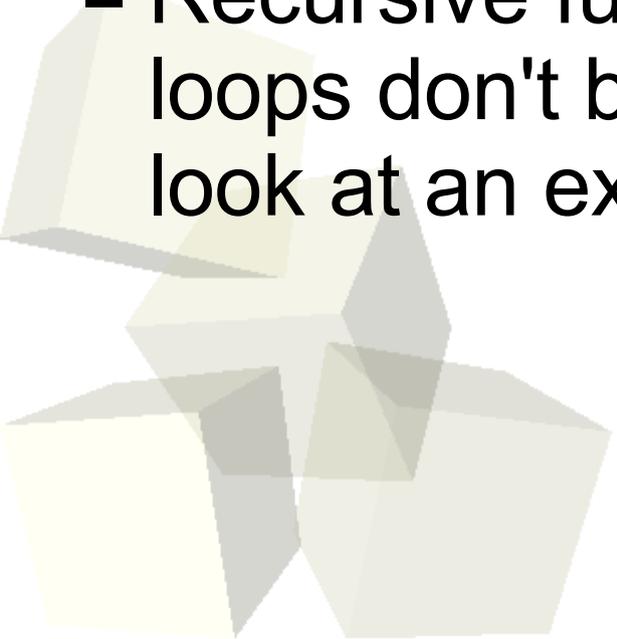
- Last time we started working on a method to throw a knife where we wanted to have the knife follow a realistic path and we wanted to determine if it hits a target or the ground.
- Let's work some more on this code.





# Recursive Functions/Methods

- On the surface, recursion is a really simple thing. A recursive method or function is one that calls itself.
- This provides us with another way of doing repetition other than loops, but the real power of recursion comes from doing more than simple repetition.
- Recursive functions have an ability that normal loops don't because they remember things. Let's look at an example to explain what I mean.





- Tell me something you aren't sure how to do yet in Alice.
- Remember to give me your description of what you will do for the project before you leave.
- Interclass Problem – Write a method that makes a character take multiple steps. The trick is I want you to do it with recursion and not a loop.

