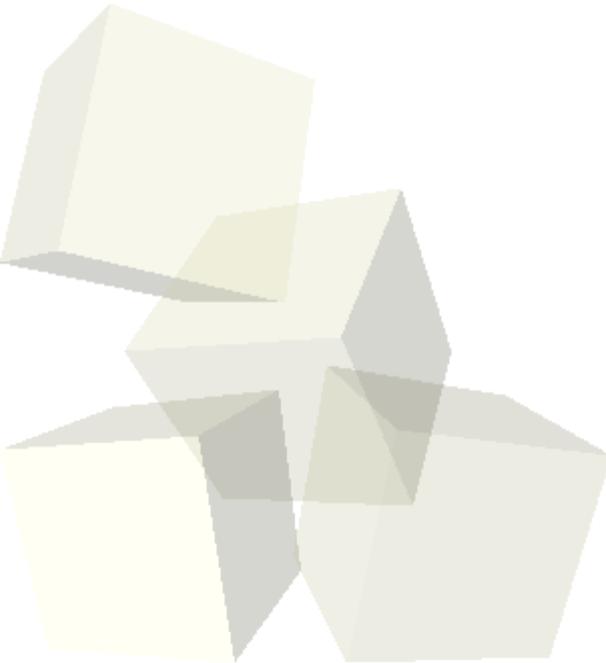




# Strings and Arrays in Java

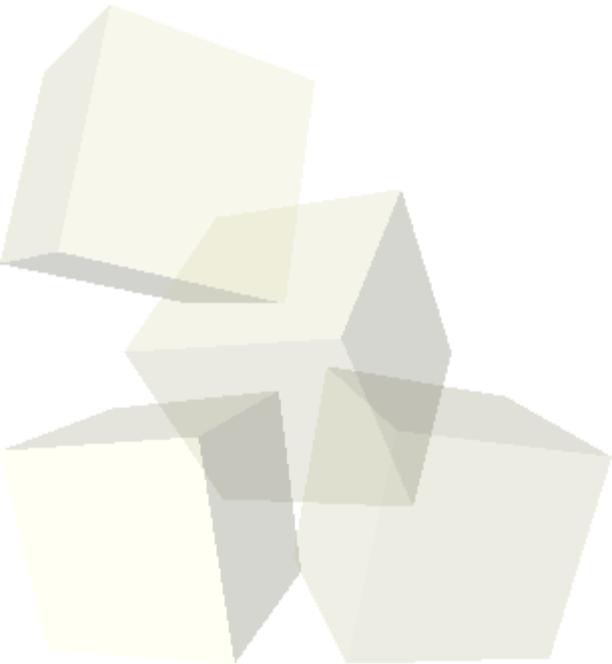
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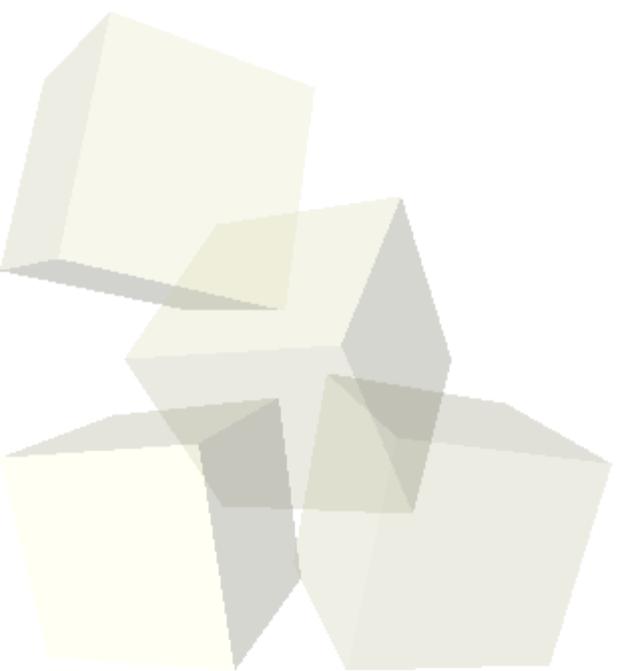
# Opening Discussion

- Do you have any questions about the reading?
- Do you have any questions about the assignment?



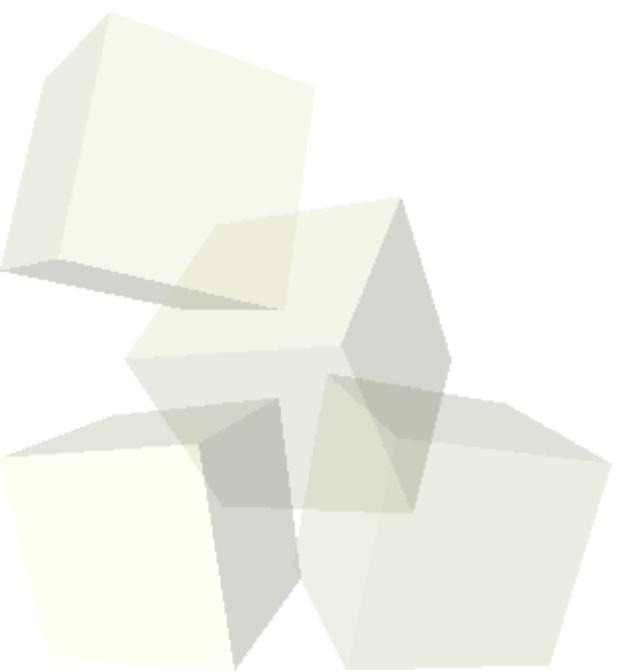


- Create a `StringHelper` class and write the following methods.
  - ◆ `int countChars(String s,char c);`
  - ◆ `String replaceAll(String s,char f,char t);`
  - ◆ `int countWords(String s);`
- Write a main method in `StringHelper` and make some calls to see if your functions work.





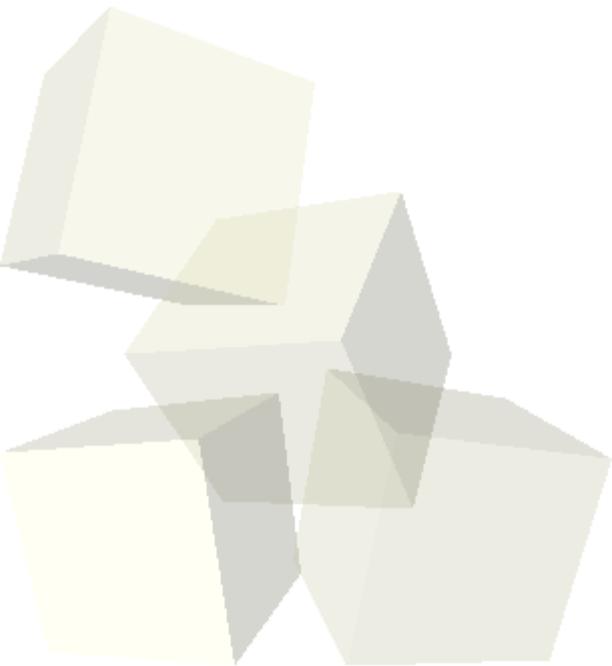
- Create an `ArrayHelper` class and write the following methods.
  - ◆ `int sumArray(int[] a);`
  - ◆ `double[] map(double[] a, MathFunction f);`





# Sorting and Searching Arrays

- These are topics that you should have talked about a fair bit in PAD1 so I'm not going to lecture on them much now.
- Instead, we'll write some code that uses arrays and these concepts and weave it into some earlier code to demonstrate a lot of the concepts that we have talked about so far.





# Making a Real Bank

- We made an account class and a customer class. Now that we can use arrays I want us to make a bank class that we can interact with.
- I will use the Scanner class for getting input from the user. The main for this class will look more like a C program than a normal Java program, but we'll have to learn about GUIs before we can fix that.





- What sorts do you remember from PAD1?  
Explain how one of those sorts works.
- Remember that the design for assignment #2 is due on Tuesday.

