Strings and Arrays in Java

2/1/2007
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);`
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.
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.