

Advanced Spreadsheets

11-5-2010

Opening Discussion

- Minute Essay comments
 - Difference between Double and double.
 - Calling sort.
 - Are math and stats easier in CS than images?
 - Is Scanner the only way to read from file?
 - Random things in the API like `javax.swing.text`.
 - Seeing your progress.
 - Spreadsheets are practical, but games are more fun.

Complex Spreadsheet Functions

- I have two examples that I want us to play with.
 - Calculating the value of money spent on a large project in adjusted dollars.
 - Averages for specific situations. Weather data makes a good example of this.
- We should step through how to solve each of these first. What would you need to do to solve either in Excel?

More Files

- We can make our program a little more useful by improving file handling.
 - We already made it so that we can specify the file name I want to read.
 - I'd like to have the ability to write our table back out to a CSV file.

Writing Files

- To write to a file we will use a `java.io.PrintWriter`. Like with the `Scanner`, we make a new `PrintWriter` and give it a `File` object. This time it is the file it should write to.
- We can then call `print` or `println` on the `PrintWriter` object.
- We should call the `close()` method when we are done.

Minute Essay

- What do you want to do next? Normally about this time I move from Greenfoot to Eclipse.
 - More spreadsheets.
 - Path finding and games.
 - Applets in Eclipse.
 - Applications in Eclipse.