

Complex Spreadsheet Problems

3/18/2009

Opening Discussion

- Minute Essay comments
 - How do we get Excel into Greenfoot?
 - Export to CSV and put it in the directory of the scenario. If you put it someplace else it will be hard to find in Greenfoot.
 - Math functions in Java.
 - Using double vs. int.
 - Greenfoot spreadsheet vs. Excel spreadsheet.

Loops: for vs. while

- Technically the for-loop and while loop can do the exact same things.
 - for(A; B; C) {
 - D
 - }
- Same as:
 - A
 - while(B) {
 - D
 - C
 - }

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. For example you want to know how the company performed in months when certain subunits performed above or below certain levels.
- We should step through how to solve each of these first. What would you need to do to solve either on Excel?

More Files

- We can make our program a little more useful by doing two things.
 - I'd like to be able to 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

- Do you have any questions?
- What type of problems do you think we should work on next week?
- Remember we do interclass problems next period.