Sorting and OO Design

2-12-2004
Opening Discussion

- What did we talk about last class?
- Do you have any questions about the assignment?
- You aren’t supposed to see the code in the game infrastructure, just as you can’t see the code in the standard Java libraries.
- You won't use sorts in the project, but you will be tested on them.
Polymorphic Code for Other Sorts

- Let’s go ahead and write the code for doing polymorphic sorts with bubble sort, selection sort, and Shell sort.
- We will also write some different comparators that might make their use more clear.
Separation of Interface from Implementation

- In a well designed OO program you should be able to completely change HOW a class does something as long as the end result adheres to the same interface.
- This is why you hide data members and put in accessor methods.
- Extra care must be taken with anything visible to the outside world because changing it can break other code.
Running Example

To help show good design outside of the context of your project, we will be looking at this example of a drawing program. I have written some of the preliminary aspects of it so that you can see the overall design.
Minute Essay

- Now do you feel comfortable with the different sorts? What about making them polymorphic? Why is making things private important in good OO design?
- Make sure you turn in the code to me by midnight tonight.
- Quiz #2 is next class.