

Note

- HW4 out. Due Tuesday 11a.


## What we are covering today

- Quick review/question of Lab 8.
- More OOD! (wrap up Java Gently. Ch 8.)
- overloading/overriding
- Properties: private and final
- references
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## Questions from Lab8?

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- Add an attribute called "average" to your lab object - this will represent the midterm average of the students in the lab
- In Lab.java, add a method average( ) that will go through each student in the list, and compute the average of their midterm grades
- After every time you add a new student to a lab, calculate the new average by calling that labs average method.
- In the "lab info" print statement, also print out the lab's midterm average
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## Modeling a Point

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- Todays Problem: model a point in 2D Cartesian space.
- What do you model? A few things:
- Access each component of a point independently
- Shift the point if you are given offset
- Rotate the point 90 degrees
- Calculate the Euclidean distance from your Point to another
- Calculate the midpoint between your point and another
- Determine if your point is equal to another
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