Recurring Section 4

Aniruth – 5 PM

Announcements

- The topics for the content review depend upon responses to the final question in the recurring section feedback form – please fill it out!
  - Feedback Form: https://forms.gle/anpxMKNFThCtYLz56

- Midterm is coming up – you got this!
  - There is no recurring tutoring this Thursday (day of the midterm).

- Since we won't be meeting, a quick PSA on Gitlet:
  - Don't worry just yet about it! It's a large project, but you will have time to do it.
  - Take a look after the midterm and see how far you can make it this weekend (early start is key).
  - It'll be like previous projects except larger, so there's even more of a need to plan and test/encapsulate as you go along.

Content Review

Dynamic Method Selection

- Static type is the type of a variable (i.e. Animal a).
  - Specified at declaration and never changed.
  - Checked during compilation (javac).
- Dynamic type is the type of what the variable points to (i.e. Dog).
  - Specified at instantiation.
  - Used during runtime (java).
- Casting tells the compiler to stop type checking but might result in errors during runtime.
- DMS: If calling a method on an object that has a compile-type of A and a runtime-type of B, if B overrides the method in A, then B's method is used even though it is called on a compile-type of A.
  - It is not enough for the method to be overloaded! It *must* be overridden.