## Day 7: Programmer-Defined Classes

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The following questions are meant to gauge your understanding of programmer-defined classes. Answer as many as you can, and make note of the ones you can't, because those are the questions you need to review most before today's exam. *Do not ask your classmates for help* – this is not an assignment, and it doesn't matter how many answers you get right. What matters is that you understand your strengths and weaknesses going into the first exam.

You should be able to easily define all of the **boldfaced** terms in this energies. If not, you have a lot of catching up to do. Be sure to ask for help and/or advice.

- 1. Name three things that can be found in a **data-type class definition**.
- 2. A method that belongs to the String class can only be called on... what?
- 3. What is the difference between a **formal parameter** and an **actual parameter**?
- 4. What do formal parameters and local variables have in common? What's different about them?
- 5. True or false: A call to a method that returns a value should be part of another statement.
- 6. What happens when a return statement is executed?
- Consider this method header:

```
public boolean equalSuit ( Card otherCard )
```

Declare and instantiate all of the objects and variables that are needed before calling the equalSuit method. Then write a call to the method so that either "The cards have the same suit" or "The cards have different suits" is displayed.

8. Consider this method definition:

Card be input / current in stude

- (a) To what does this refer?
- (b) What is the data type of this.suit? 5+rin4
- (c) Of what class is the equals method a member? Strice
- (d) What type of data is sent as an actual parameter to the equals method?  $\Rightarrow \land \land q$
- (e) What type of data is returned by the equals method? 600 126
- How can this method be written more compactly?