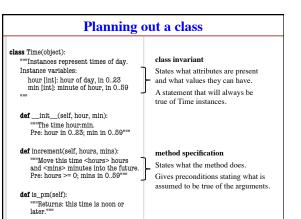
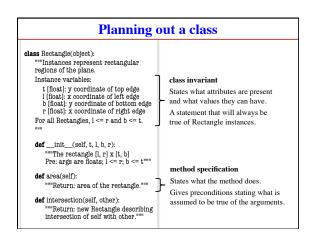
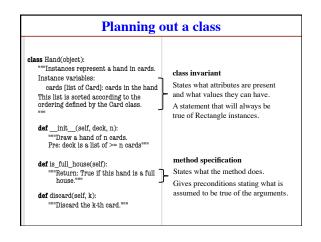


Making a class a type

- Think about what values you want in the set
 What attributes? What values can they have?
- 2. Think about what operations you wantOften influences the previous question
- To make (1) precise: write a *class invariant*
- A statement we promise ourselves to keep true at all times
 To make (2) precise: write specifications of methods
 A statement of what the method does and what it expects
- (preconditions)
- Write your code to make these statements true!







Implementing a class

- All that remains is to fill in the methods. (All?!)
- When implementing methods:
 - Assume preconditions are true
 - Assume class invariant is true to start
 - Ensure method specification is fulfilled
 - Ensure class invariant is true when done
- Later, when using the class:
 - When calling methods, ensure preconditions are true
 - If attributes are altered, ensure class invariant is true

