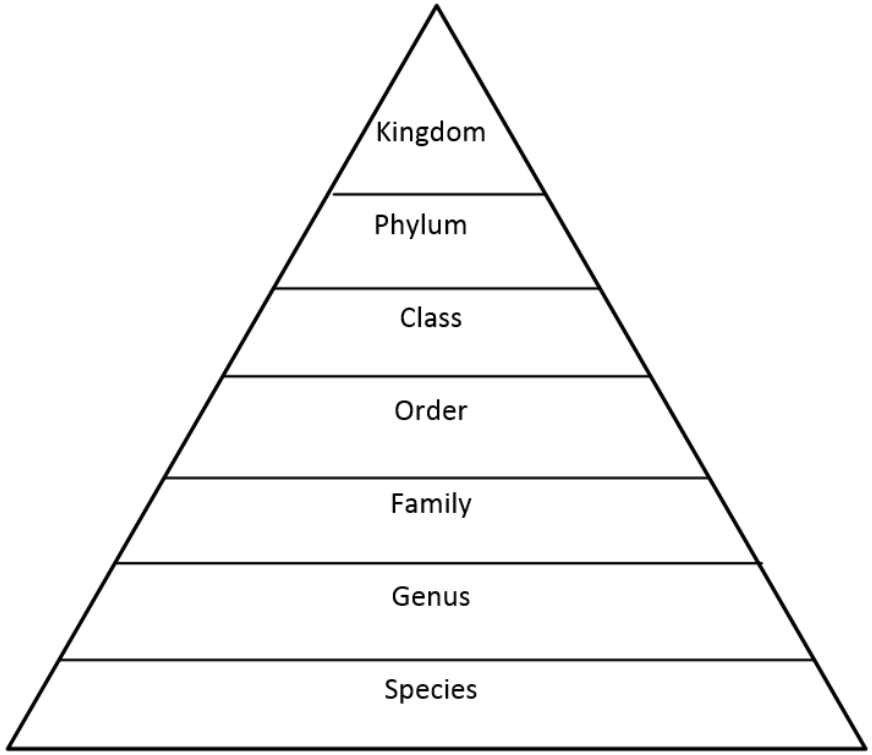
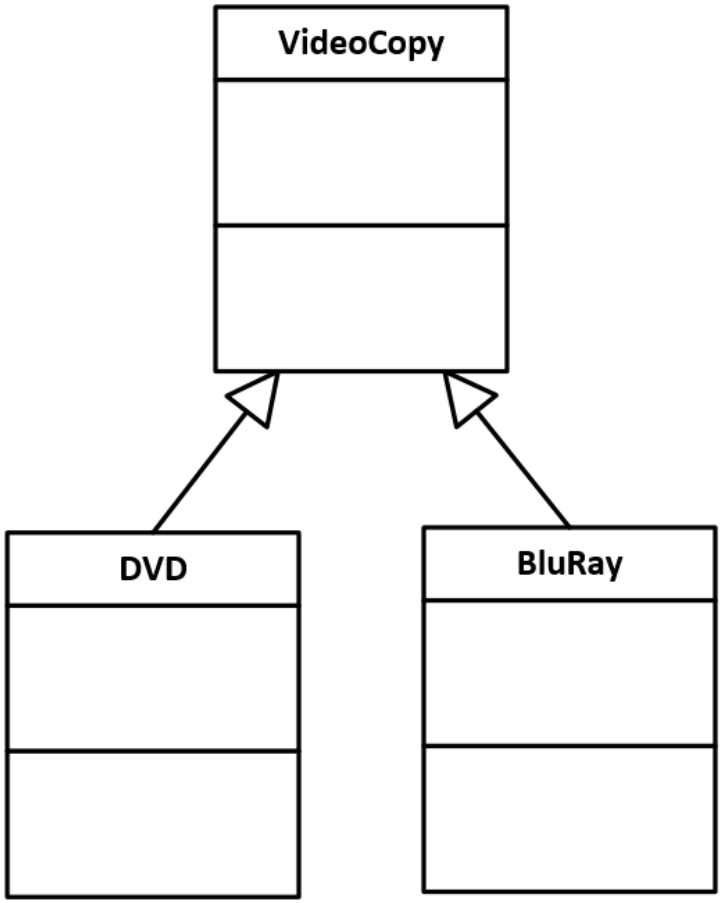
Generalization-Specialization



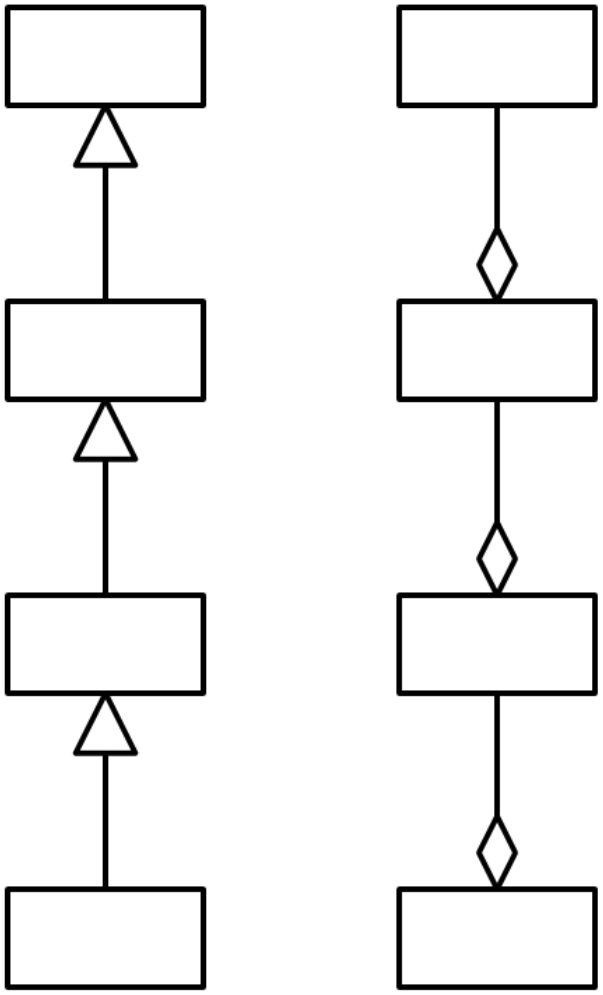
Generalization



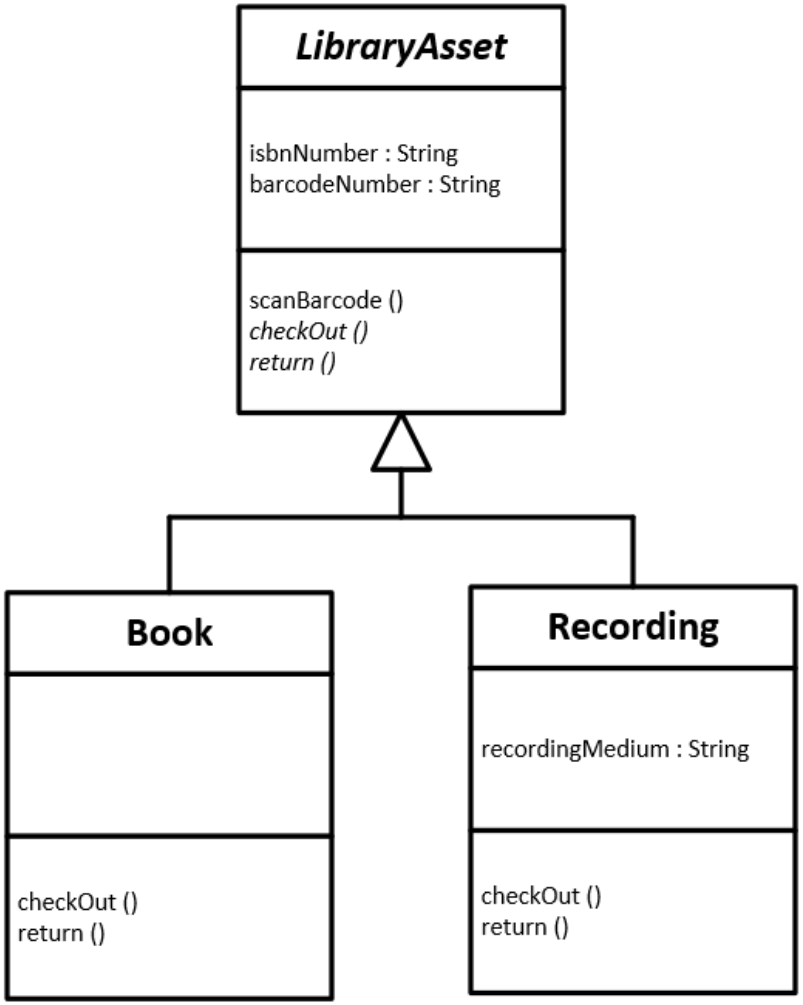
Rules

- Specializations **inherit** all properties
  - Attributes
  - Operations
  - Associations
  - Constraints
- Specialization may **add** new properties
- Specialization may **override** operations

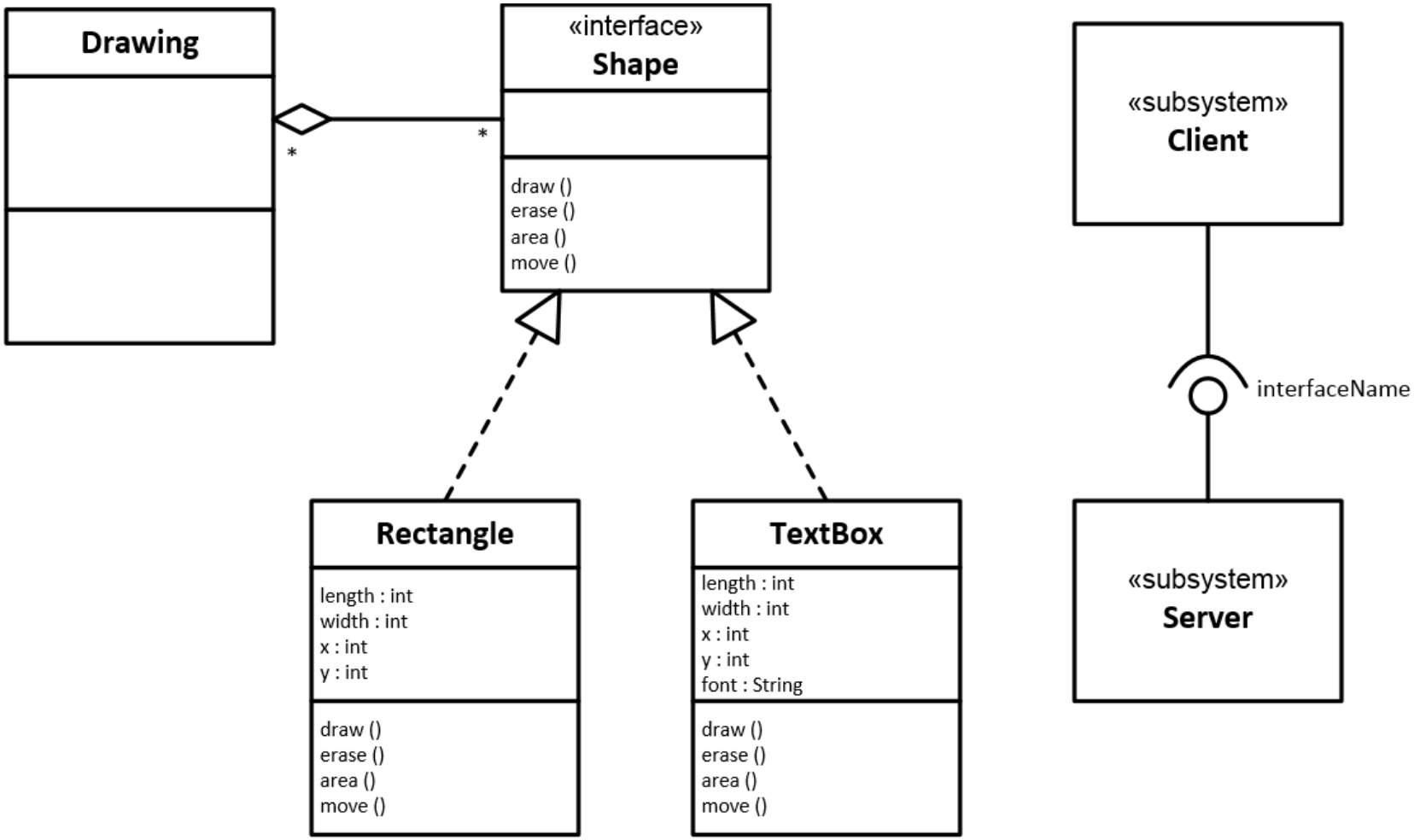
Generalization vs. Aggregation



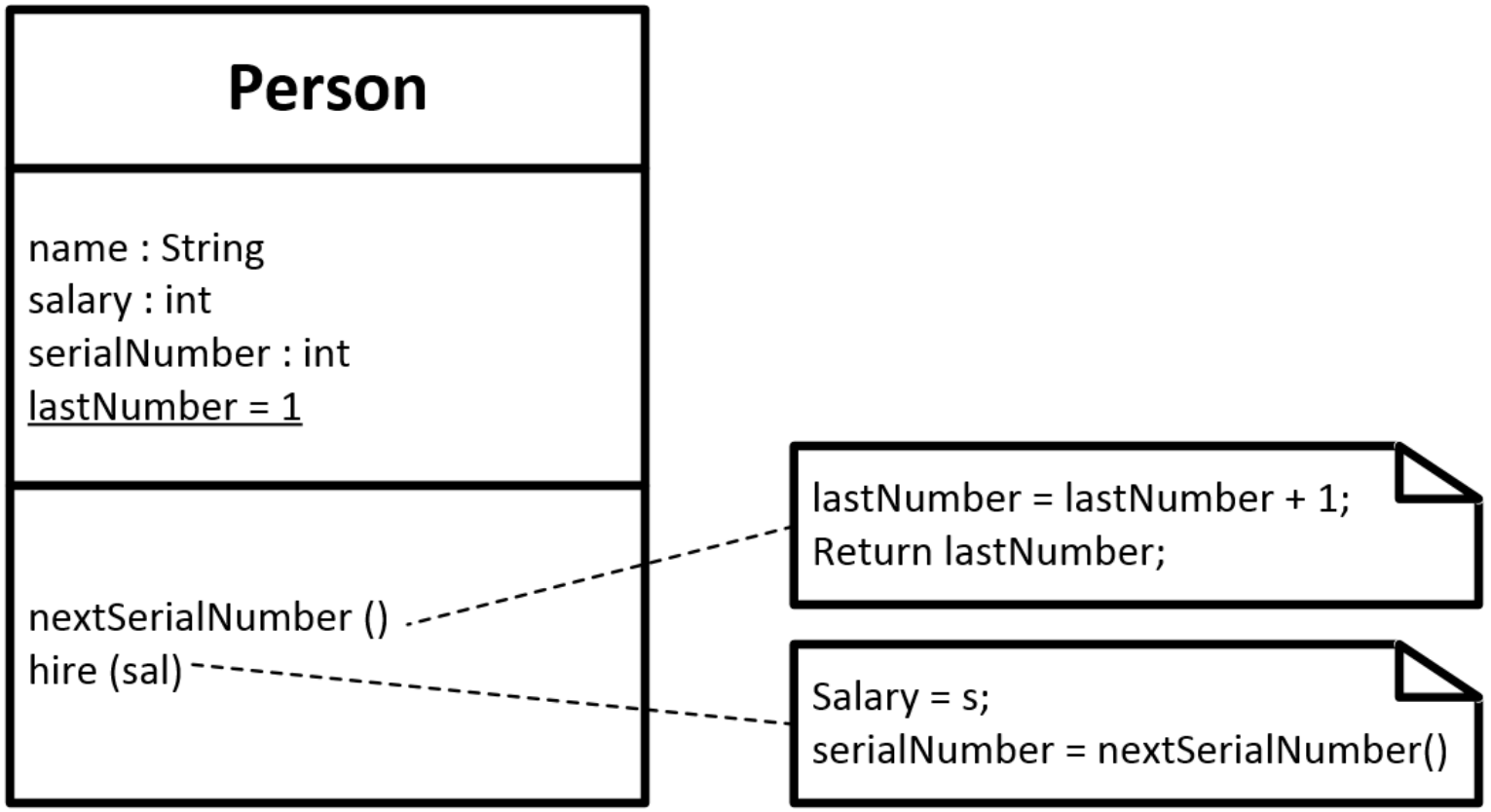
Abstract Class



Interface


Drawing
«interface»
Shape
draw ()
erase ()
area ()
move ()
*
*
Rectangle
length : int
width : int
x : int
y : int
draw ()
erase ()
area ()
move ()
TextBox
length : int
width : int
x : int
y : int
font : String
draw ()
erase ()
area ()
move ()
«subsystem»
Client
interfaceName
«subsystem»
Server

Classifier Scope



Next

- Static modeling example