

Polymorphism :

3 principles of OOP

Inheritance

Polymorphism

Encapsulation

Review Polymorphism

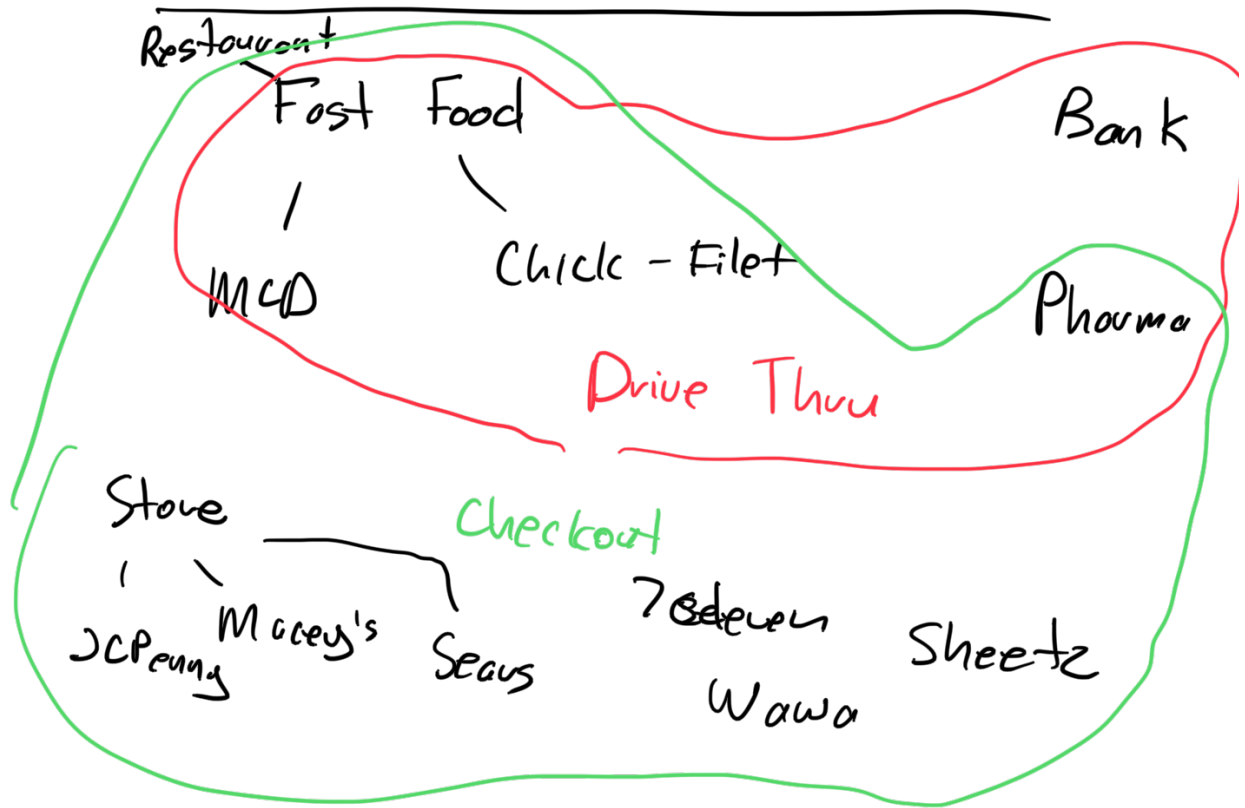
Auction auction = new SecondPric

auction = new BuyoutAuction()

List<BankAccount> accounts = new ...
accounts.add(new CheckingAccount(...));
accounts.add(new SavingsAccount(...));

Inheritance in Java :

Single - inheritance
only one parent



Interfaces

Define what a class can do but
NOT how they do it.

e.g. Method Signature

A contract the class agrees to
provide

implements = keyword

classes can implement many interfaces

Interfaces constitute an "Is-A" relationship

Cannot directly instantiate an interface with new

All inheritance rules apply

ex:

```
interface DriveThru  
{  
    . . .  
}
```

```
class FastFood implements DriveThru {  
    . . .  
}
```

```
class Mcd extends FastFood {
```

