Dillon Prescott And Samuel Forbes
ESOF 322
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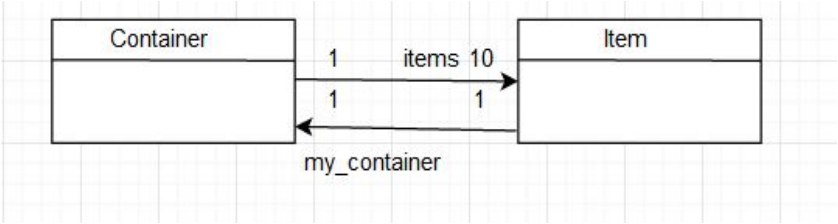
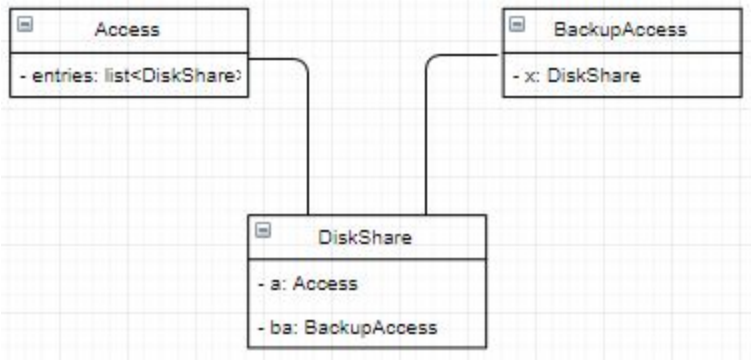
HW #1

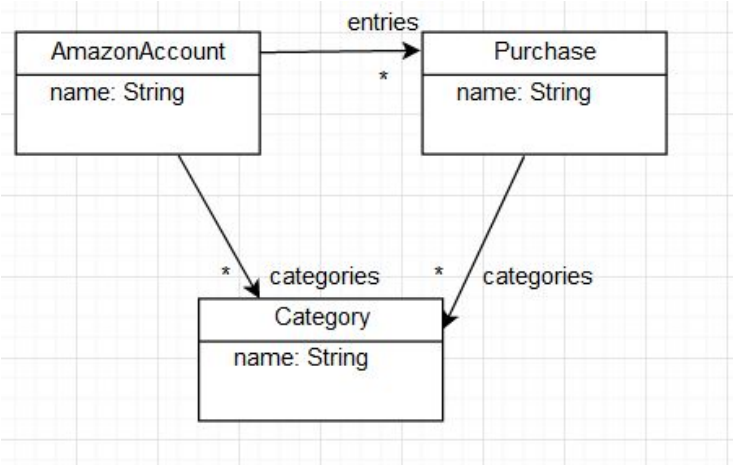
Problem #1:



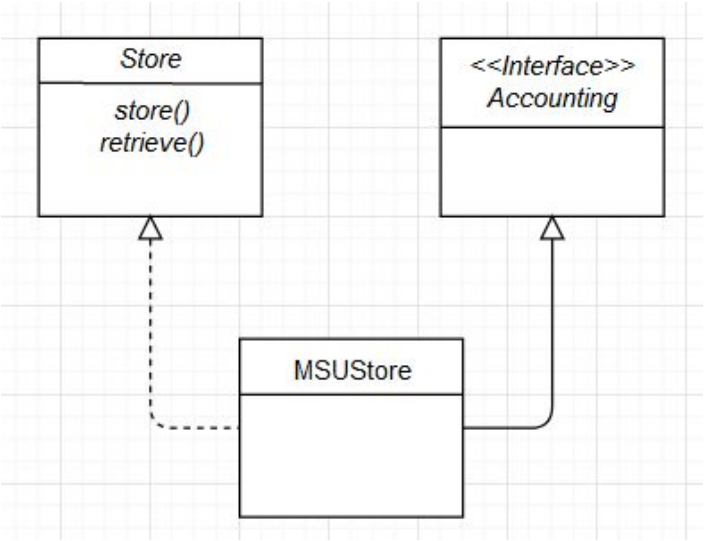
Problem #2:



Problem $3:



Problem #4:



Problem #5:

```
public class Address {
		private String street;
		private String postalCode;
		private String city;
}
public class Person {
		private String name;
		private String email;
		private Address address;
}
public class Customer extends Person {
		private BankAccount bankAccount;
}
```

```
public class Employee extends Person {


}
public class Subcontractor extends Customer, Employee {


}
public class BankAccount {
		private UnlimitedNatural number;
		private String depositor;
		private String bank;
}
public class Service {
		private Customer customer;
}
public class VehicleRentalService extends Service {
		private Vehicle vehicle;


		public void offerCar() {


		}
		public void offerMotorbike() {
```

```
        }
        public void offerTruck() {


        }
}
public class Truck {
        private UnlimitedNatural weight;
        private UnlimitedNatural power;
        private String manufacturer;
        private String regNo;
}
public class Car {
        private CarKind kind;
        private UnlimitedNatural noSeats;
        private UnlimitedNatural power;
        private String manufacturer;
        private String regNo;
}
public class Motorbike {
        private MbKind kind;
        private UnlimitedNatural cylinderCap;
        private UnlimitedNatural power;
```

```
        private String manufacturer;
        private String regNo;
}
interface IRentable {
        void rent();
}
public class Vehicle extends Truck, Car, Motorbike implements IRentable {
        public void rent() {


        }
}
public class Company {
        private String name;
        private Address headquarters;
        private Customer[] customer;
        private Employee[] employee;
        private VehicleRentalService service;
        private Motorbike[] motorbike;
        private Car[] car;
        private Truck[] truck;
}
```