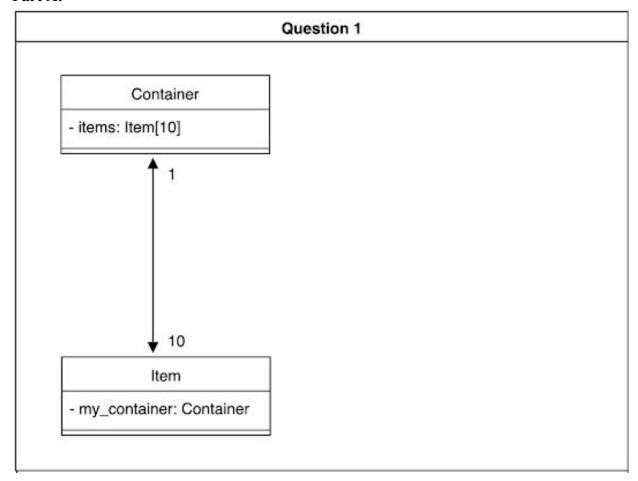
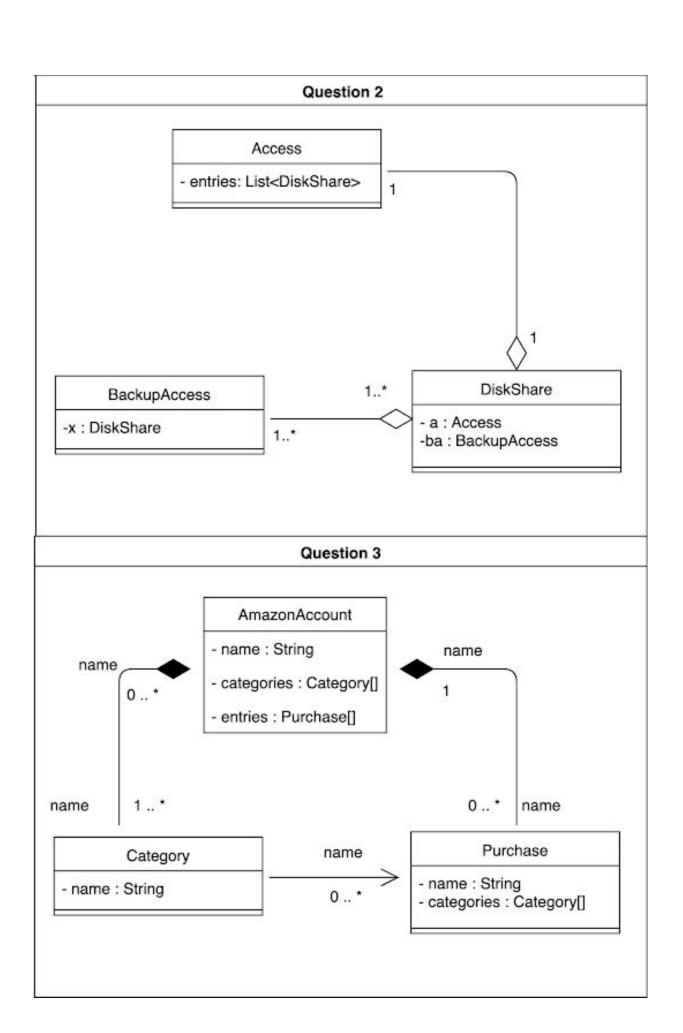
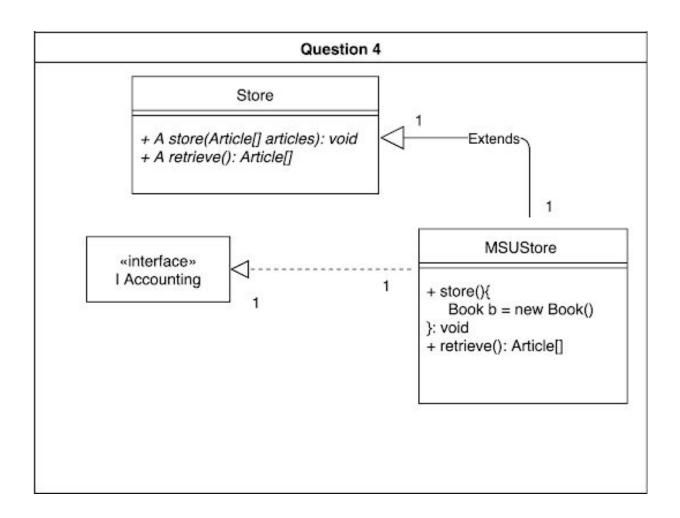
Lin Shi -02559206 Muzhou Chen -02389187 ESOF 322 September 12, 2019 Homework 1

## Part A:







## Part B:

```
public class Car extends Vehicle(){
       public CarKind kind;
       public UnlimitedNatural noSeats;
       public UnlimitedNatural power;
       public String manufacturer;
       public String regNo;
}
public class Motorbike extends Vehicle(){
       public Mbkind kind;
       public UnlimitedNatural cylinderCap;
       public UnlimitedNatural power;
       public String manufacturer;
       public String regNo;
}
public class Company(){
       public String name;
       public Address headquarters;
       public Employee employee;
       public Customer customer;
       public VehicleRentalService service;
       public Motorbike motorbike;
       public Car car;
       public Truck truck;
}
public class Person(){
       public String name;
       public String email;
       public Address address;
public class Address(){
       public String street;
       public String postalCode;
       public String city;
}
```

```
public class Service(){
       public Customer customer;
}
public class VehicleRentalService extends Service(){
       public Vehicle vehicle;
       public void offerCar();
       public void offerMotorbike();
       public void offerTruck();
}
public class BankAccount(){
       public UnlimitedNatural number;
       public String depositor;
       public String bank;
}
public class Employee extends Person(){}
public class Customer extends Person(){
       public BankAccount bankAccount;
}
public class subcontractor extends Employee extends Customer(){}
```