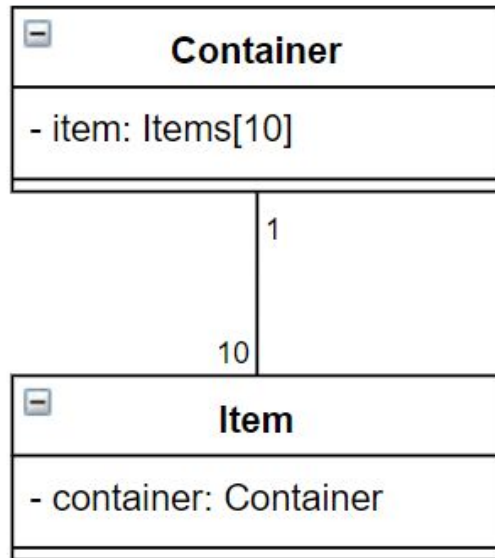
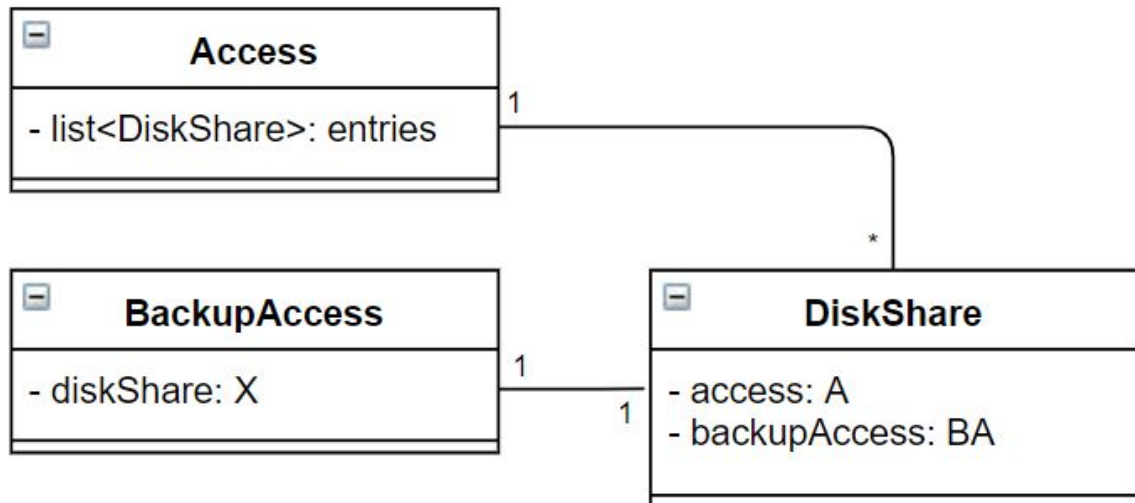


ESOF 322 Homework 1

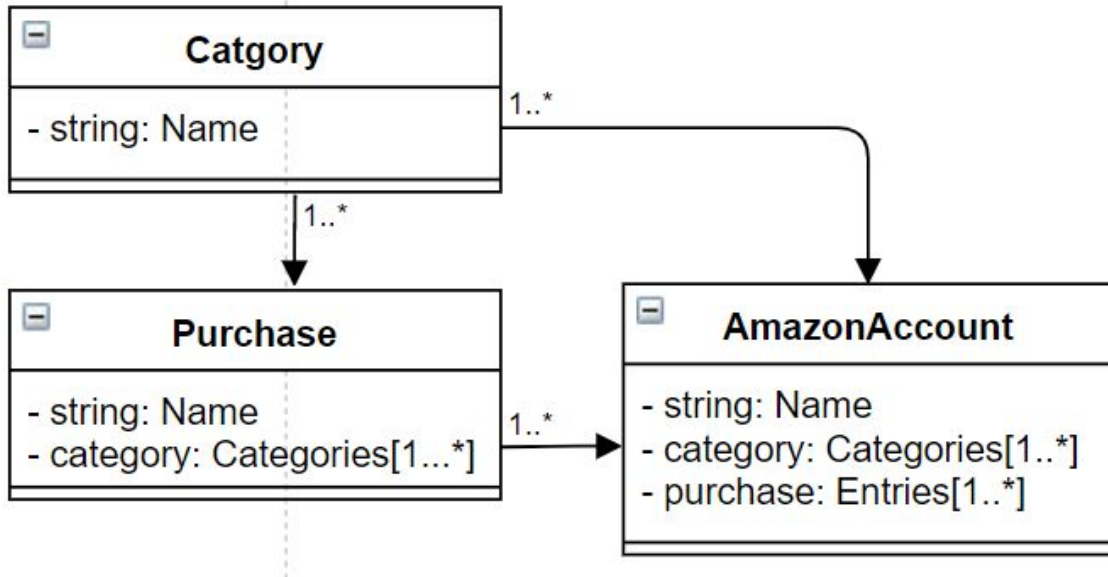
1)



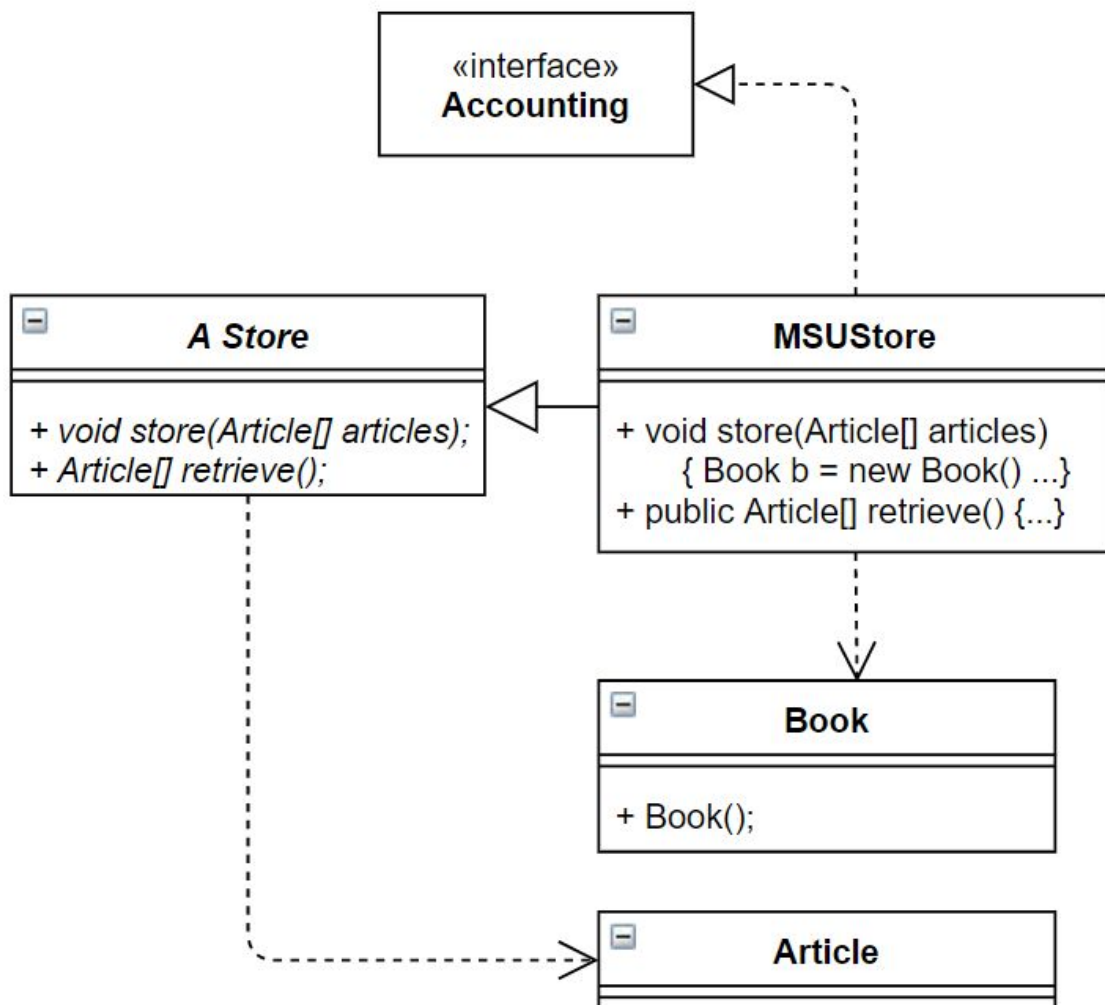
2)



3)



4)



5)

```
Public abstract class Person {  
    Public String name;  
    Public String email;  
}
```

```
Public class Employee extends Person {  
  
}
```

```
Public class Customer extends person {  
    Public BankAccount account;  
  
    Public Customer() {  
        BankAccount account = new BankAccount();  
    }  
}
```

```
Public class Subcontractor extends Employee, Customer {  
  
}
```

```
Public class BankAccount {  
    Public UnlimitedNatural number;  
    Public String depositor;  
    Public String bank;  
}
```

```
Public class Company {  
    Public String name;  
    Public Address headquarters;  
    Public Employee employees[];  
    Public Car cars[];  
    Public Motorbike motorbikes[];  
    Public Truck trucks[];  
    Public Service vehicleRenter;  
  
    Public Company() {  
        vehicleRenter = new VehicleRentalService();  
    }  
}
```

```
Public abstract class Service {  
    Public Customer customer;  
}
```

```
Public class VehicleRentalService extends Service {  
    Public Vehicle vehicle[];  
    Public Car offerCar() {...};  
    Public Motorbike offerMotorbike() {...};  
    Public Truck offerTruck() {...};  
}
```

```
Public interface IRentable {  
    Public void rent();  
}
```

```
Public abstract class Vehicle implements IRentable {  
    Public void rent() {...};  
}
```

```
Public class Truck extends Vehicle {  
    Public UnlimitedNatural weight;  
    Public UnlimitedNatural power;  
    Public String manufacturer;  
    Public String regNo;  
}
```

```
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;  
}
```