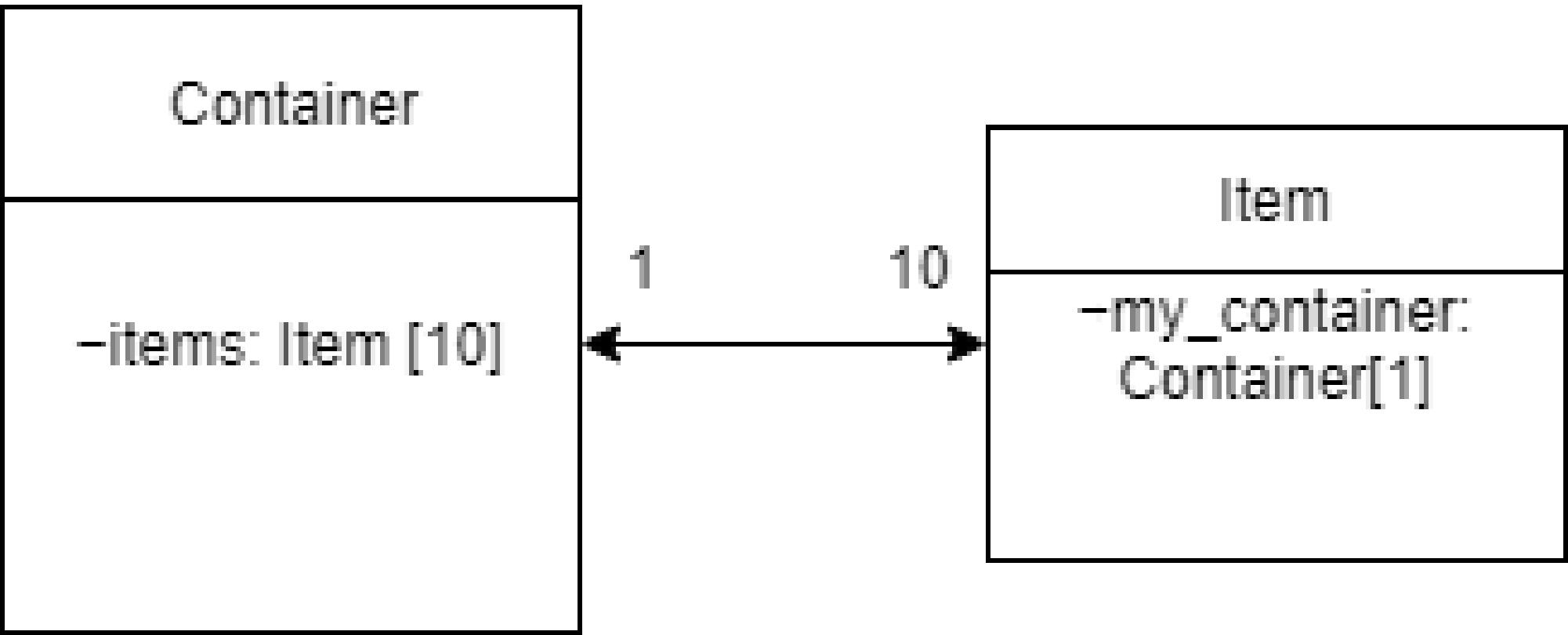
Jay Van Alstyne

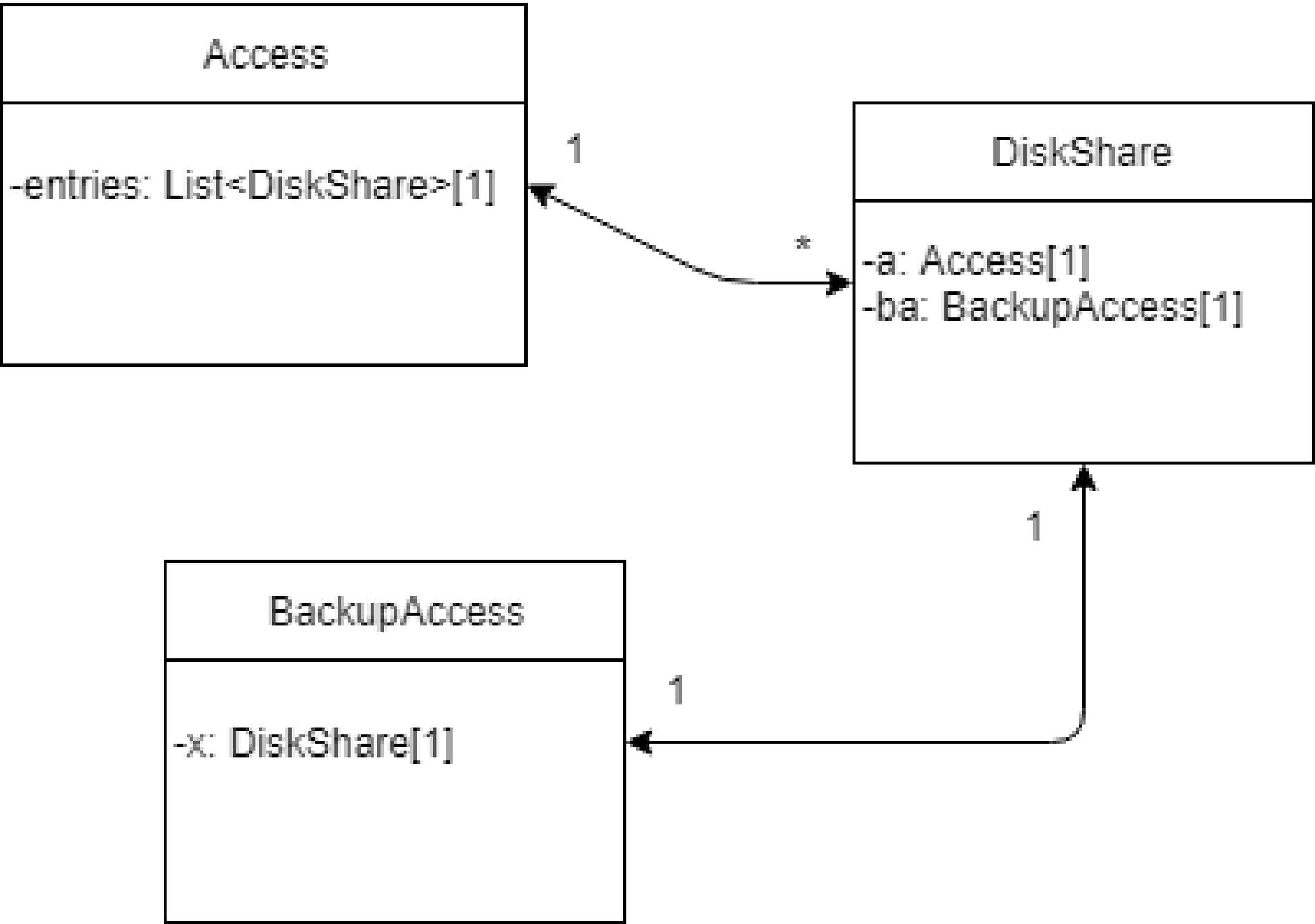
Jesse Arstein

Homework 1

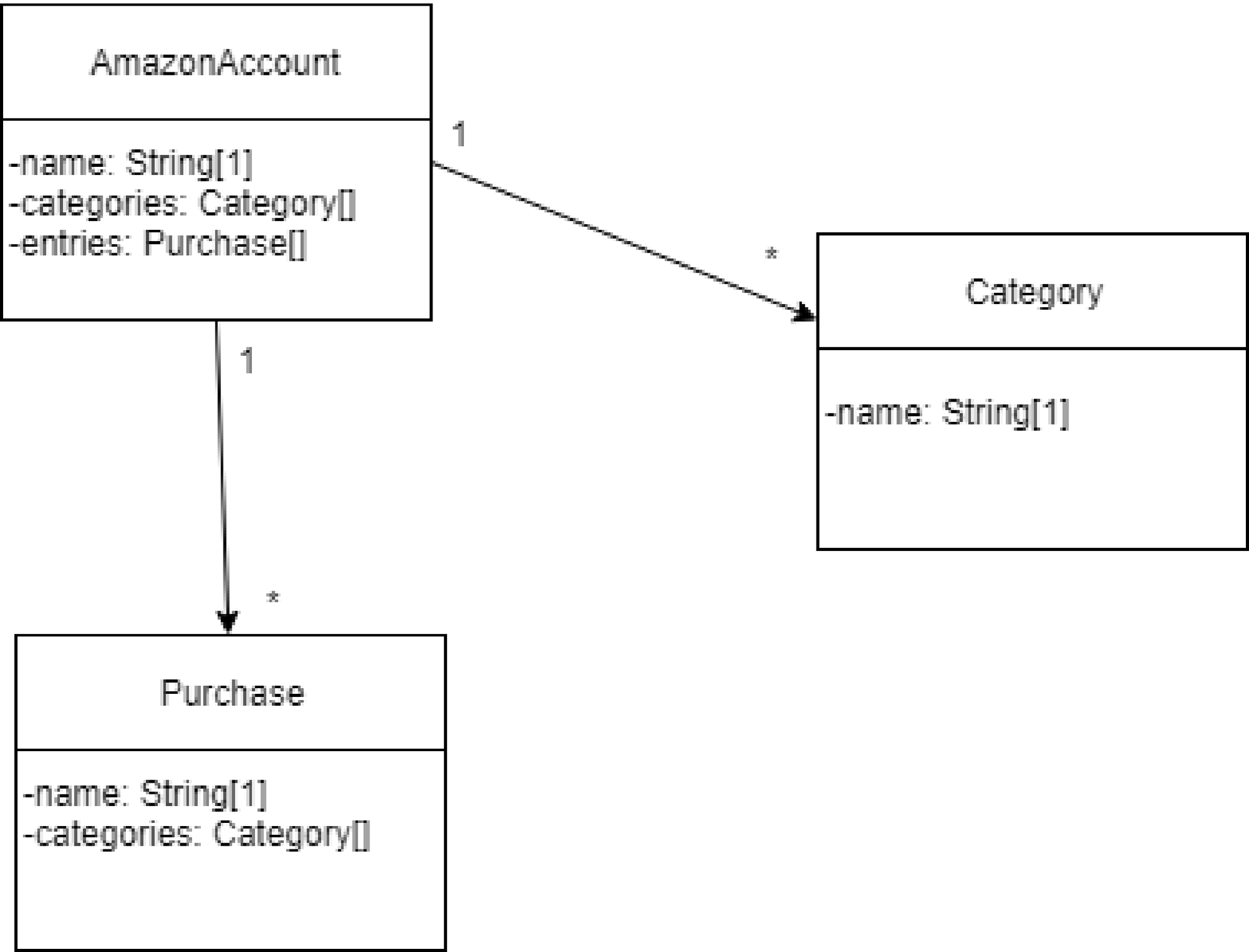
Part A Question 1



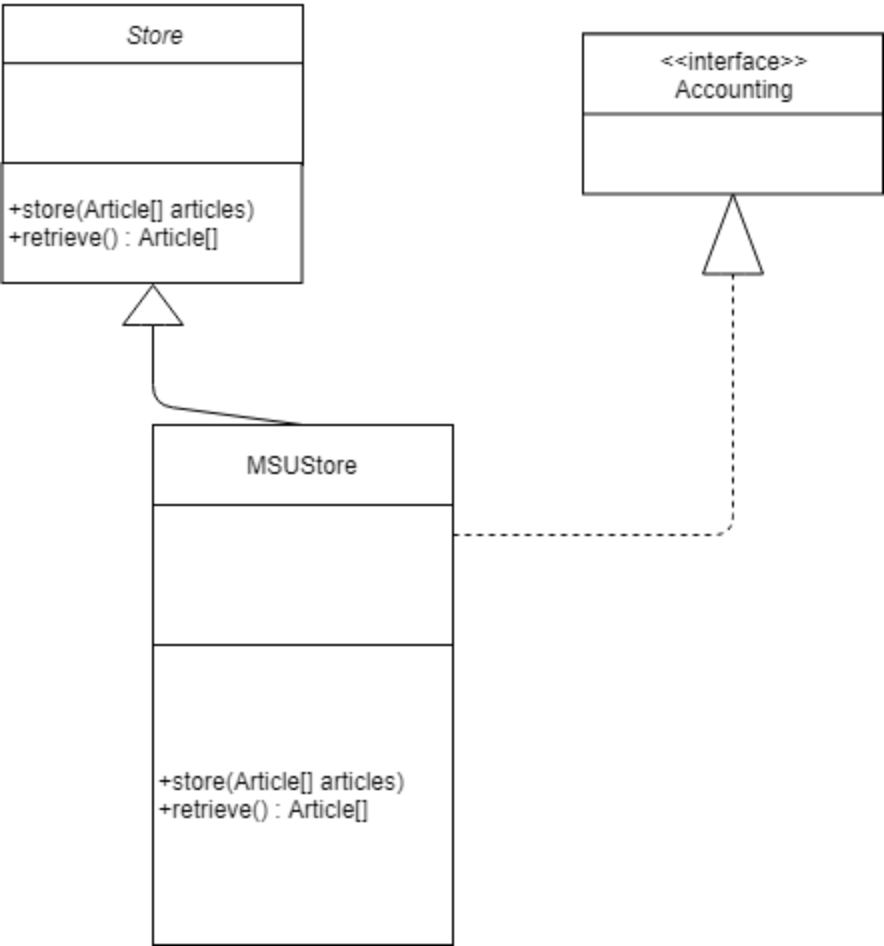
Part A Question 2



Part A Question 3



Part A Question 4



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

public abstract 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 Employee extends Person{

}

public class Customer extends Person{
    public BankAccount bankaccount;

}
```

```
public class BankAccount{
    public UnlimitedNatural number;
    public string depositor;
    public string bank;
}

public class Subcontractor extends Employee,Customer{

}

public abstract class Service{
    public Customer customer;
}
public class VehicleRentalService extends Service{
    public Vehicle vehicle;
    public void offerCar()
    public void offerMotorbike();
    public void offerTruck();
}

public abstract class Vehicle implements Rentable{

}
public class Rentable{
    public void rent();
}

public class Truck extends Vehicle{
    public UnlimitedNatural weight;
    public UnlimitedNatural power;
    public string manufacuturer;
    public string regNo;
}

public class Car extends Vehicle{
    public CarKind kind;
    public UnlimitedNatural noSeats;
    public UnlimitedNatural power;
    public string manufacuturer;
    public string regNo;
}

public class Motorbike extends Vehicle{
    public MbKind kind;
    public UnlimitedNatural cylinderCap;
    public UnlimitedNatural power;
    public string manufacuturer;
    public string regNo;
}
```