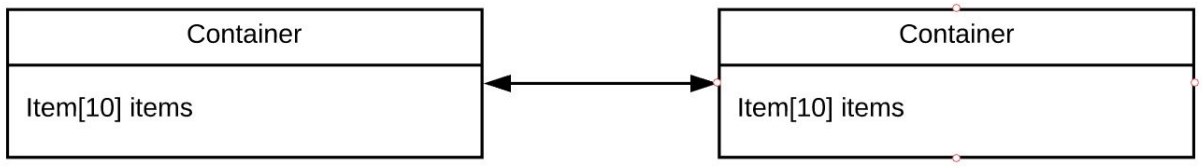
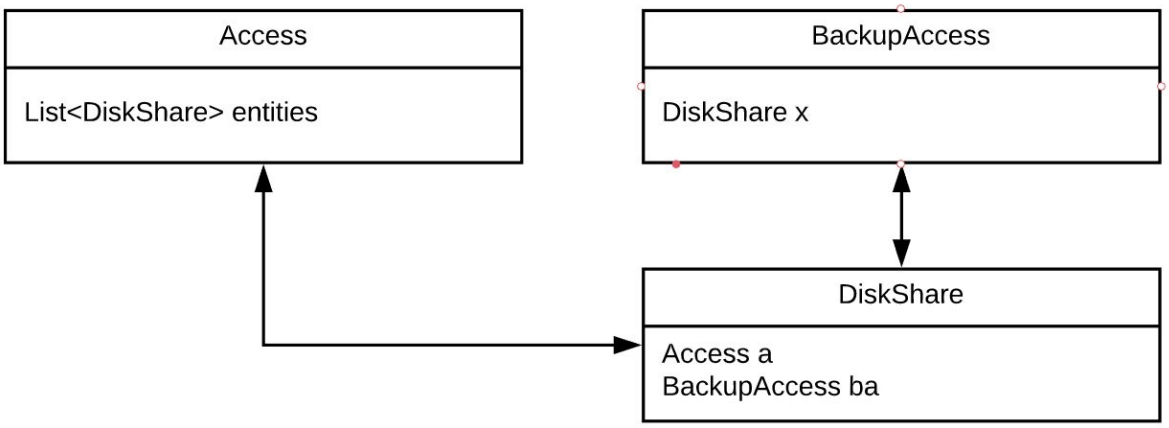
Part A

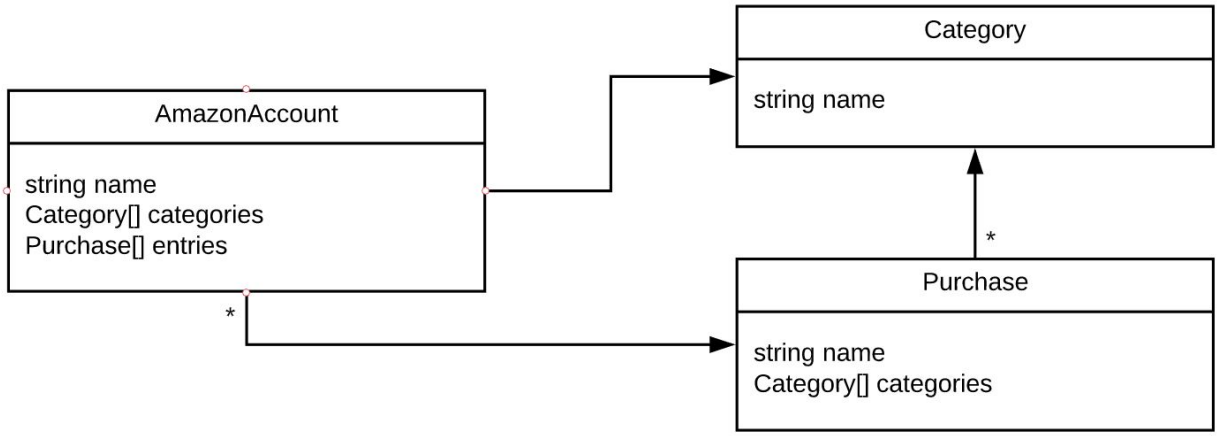
1)


Container
Item[10] items
Container
Item[10] items

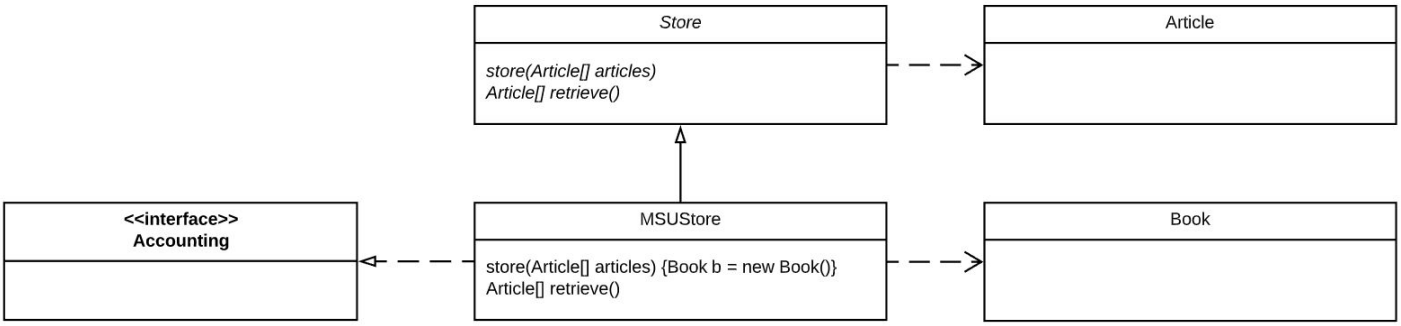
2)


Access
List<DiskShare> entities
BackupAccess
DiskShare x
DiskShare
Access a
BackupAccess ba

3)


Category
string name
AmazonAccount
string name
Category[] categories
Purchase[] entries
*
*
Purchase
string name
Category[] categories

4)



Part B

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

public class Person {
	private String name;
	private String email;
	private Address address;
}

public class Address {
	private String street;
	private String postalCode;
	private String city;
}

public class Employee extends Person {}
```

```
public class Customer extends Person {
	private BankAccount bankAccount;
}

public class Subcontracter extends Employee {}

public class Subcontracter extends Customer{}

public class BankAccount {
	private UnlimitedNatural number;
	private String depositor;
	private String bank;
}

public abstract class Service {
	private Customer customer;
}

public class VehicleRentalService extends Service {
	private Vehicle vehicle;

	public Car offerCar() {}
	public Motorbike offerMotorbike() {}
	public Truck offerTruck() {}
}

public interface IRentable {
	public rent();
}

public abstract class Vehicle implements IRentable {
	public Vehicle rent();
}

public class Truck extends Vehicle {
	private UnlimitedNatural weight;
	private UnlimitedNatural power;
	private String manufacturer;
	private String regNo;

	public Truck rent();
}
```

```
public class Car extends Vehicle {
	private CarKind kind;
	private UnlimitedNatural noSeats;
	private UnlimitedNatural power;
	private String manufacturer;
	private String regNo;

	public Car rent();
}

public class Motorbike extends Vehicle {
	private MbKind kind;
	private UnlimitedNatural cylinderCap;
	private UnlimitedNatural power;
	private String manufacturer;
	private String regNo;

	public Motorbike rent();
}
```