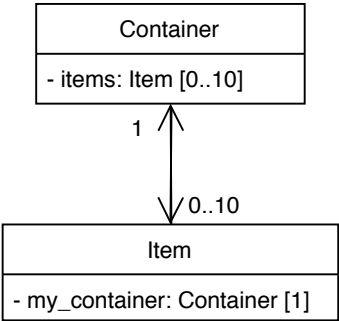
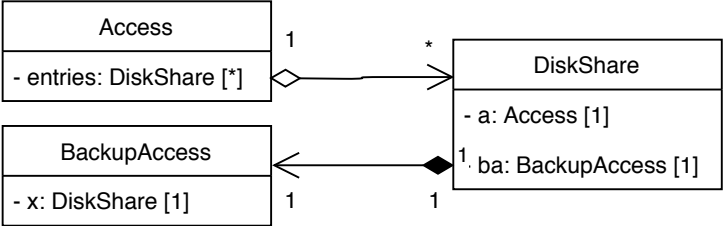


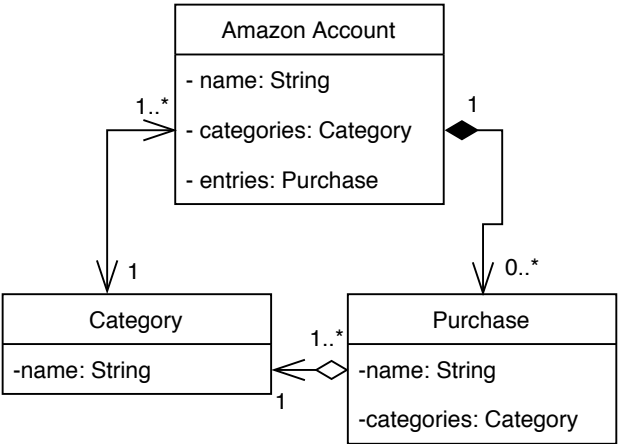
PART 1



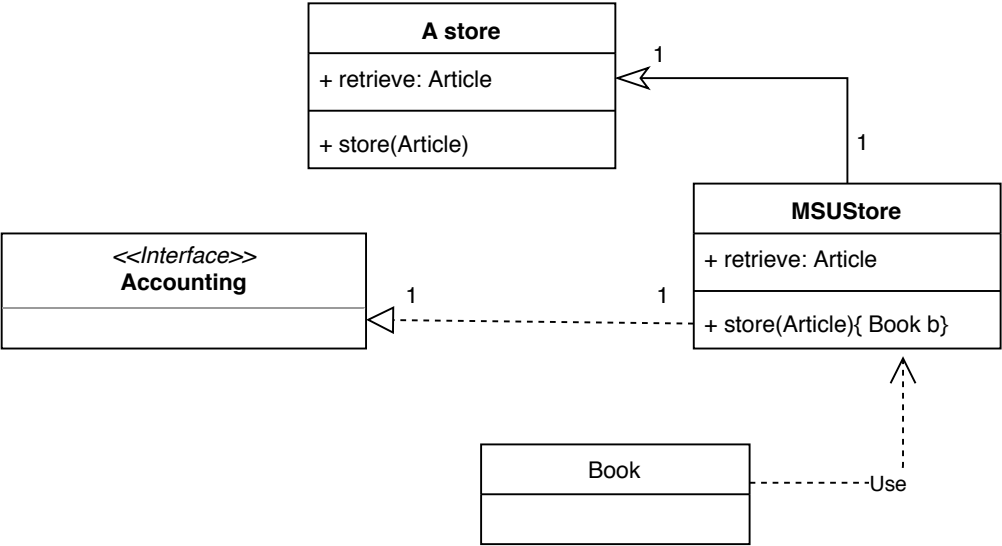
PART 2



PART 3



PART 4



```

1 // ESOF 322 - SOFTWARE ENGINEERING
2 // KYLE BREKKE, MARNIE MANNING
3 // HOMEWORK 1, PART B
4
5 // All variables in the diagram were interpreted as being public as a result of the
6 // preceeding '+' symbols before each of their identifiers.
7 public class Company {
8     public String name;
9     public Address headquarters;
10    public List<Truck> truck;
11    public List<Car> car;
12    public List<Motorbike> motorbike;
13    public VehicleRentalService service;
14    public List<Customer> customer;
15    public List<Employee> employee;
16 }
17
18 public class Truck extends Vehicle {
19     public UnlimitedNatural weight;
20     public UnlimitedNatural power;
21     public String manufacturer;
22     public String regNo;
23 }
24
25 public class Car extends Vehicle {
26     public CarKind kind;
27     public UnlimitedNatural noSeats;
28     public UnlimitedNatural power;
29     public String manufacturer;
30     public String regNo;
31 }
32
33 public class Motorbike extends Vehicle {
34     public MbKind kind;
35     public UnlimitedNatural cylinderCap;
36     public UnlimitedNatural power;
37     public String manufacturer;
38     public String regNo;
39 }
40
41 public abstract class Vehicle implements IRentable { ... }
42
43 public interface IRentable {
44     public void rent() {...}
45 }
46
47 public class VehicleRentalService extends Service {
48     public Vehicle vehicle;
49
50     public void offerCar() {...}
51     public void offerMotorbike() {...}
52     public void offerTruck() {...}
53 }
54
55 public abstract class Service {
56     public Customer customer;
57 }
58
59 public abstract class Person {
60     public String name;
61     public String email;
62     public Address address;
63 }
64
65
66
67

```

```
68
69 // One-to-many relationship with the Persion class in the UML diagram is assumed,
70 // and not explicitelty coded in the class
71 public class Address {
72     public String street;
73     public String postalCode;
74     public String city;
75 }
76
77 public class Customer extends Person {
78     public BankAccount bankAccount;
79 }
80
81 // Emplyee and Subcontractor classes not provided specific variables, so their
82 // content is represented with the {...} at the end of their declaration
83 public class Employee extends Person {...}
84 public class Subcontractor extends Customer, Employee {...}
85
86 public class BankAccount {
87     public UnlimitedNatural number;
88     public String depositor;
89     public String bank;
90 }
```