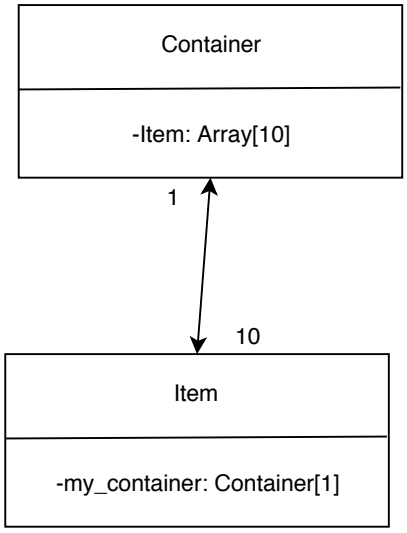
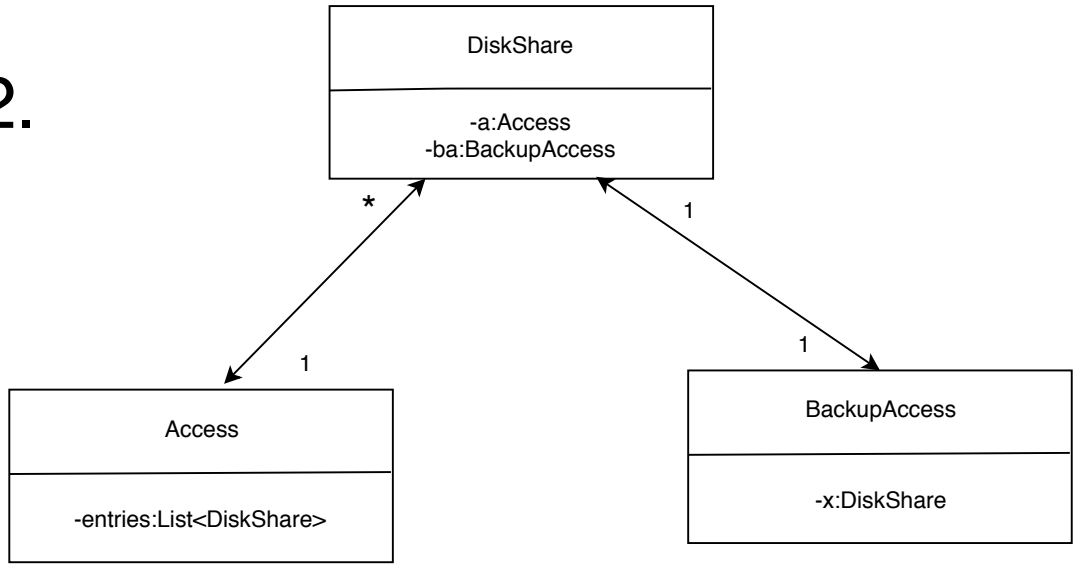
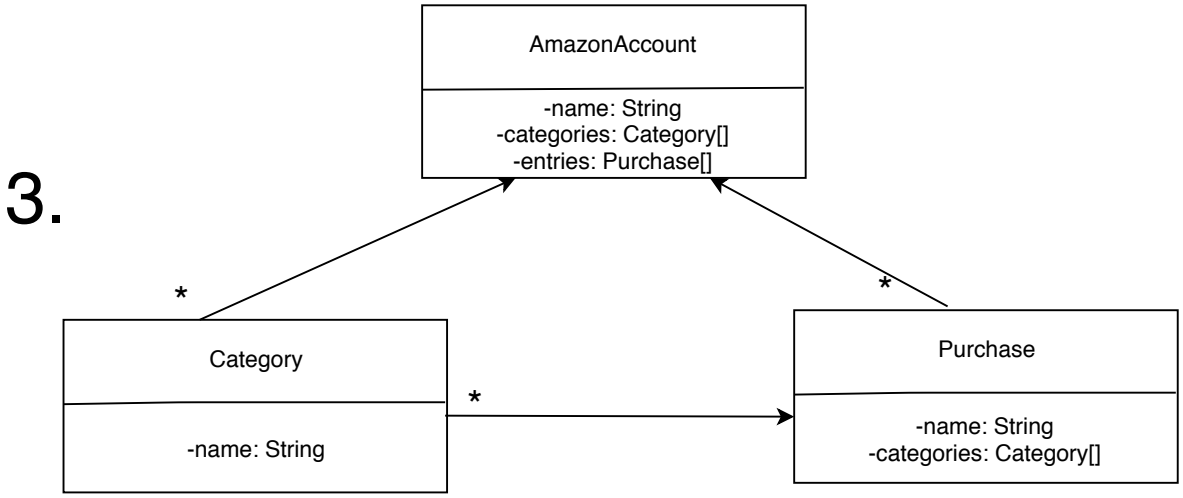
1.


Container
-Item: Array[10]
1
10
Item
-my_container: Container[1]

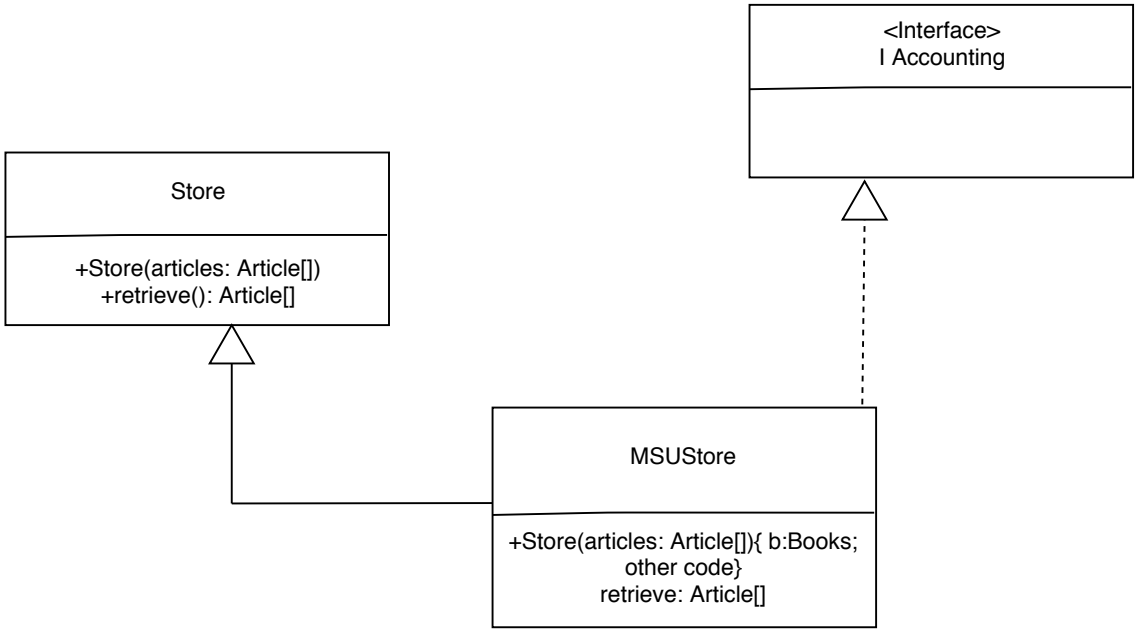
2.


DiskShare
-a:Access
-ba:BackupAccess
*
1
1
1
Access
-entries:List<DiskShare>
BackupAccess
-x:DiskShare

3.


AmazonAccount
-name: String
-categories: Category[]
-entries: Purchase[]
*
*
Category
-name: String
*
Purchase
-name: String
-categories: Category[]

4.



Part B

I'll upload a file with this in a better format.

```
public interface IRentable {
	public type rent();
}

public class Company{
	public String[] name = new String[1];
	public Address[] headquarters = new Address[1];
}

public class Employee extends Person{

}

public class Customer extends Person{

}

public class Subcontractor extends Employee, Customer{ //Subcontractor inherits from both Employee and
Customer

}

public class Person{
	public String[] name = new String[1];
	public String[] email = new String[1];
}

public class Address{
	public String[] street = new String[1];
	public String[] postalCode = new String[1];
	public String[] city = new String[1];
}

public class BankAccount{
	public UnlimitedNatural[] number = new  UnlimitedNatural[1];
	public String[] depositor = new String[1];
	public String[] bank = new String[1];
}

public class Truck extends Vehicle{
	public UnlimitedNatural[] weight = new  UnlimitedNatural[1];
	public UnlimitedNatural[] power = new  UnlimitedNatural[1];
```

```
        public String[] manufacturer = new String[1];
        public String[] regNo = new String[1];
}

public class Car extends Vehicle{
        public CarKind[] kind = new CarKind[1];
        public UnlimitedNatural[] noSeats = new  UnlimitedNatural[1];
        public UnlimitedNatural[] power = new  UnlimitedNatural[1];
        public String[] manufacturer = new String[1];
        public String[] regNo = new String[1];
}

public class Motorbike extends Vehicle{
        public MbKind[] kind = new MbKind[1];
        public UnlimitedNatural[] cylinderCap = new  UnlimitedNatural[1];
        public UnlimitedNatural[] power = new  UnlimitedNatural[1];
        public String[] manufacturer = new String[1];
        public String[] regNo = new String[1];
}

public class Vehicle implements IRentable{

}

public class VehicleRentalService extends Service{
        public Vehicle[] vehicle = new Vehicle[1];

        public type offerCar();
        public type offerMotorbike();
        public type offerTruck();
}

public class Service{
        public Customer[] customer = Customer[1];
}
```