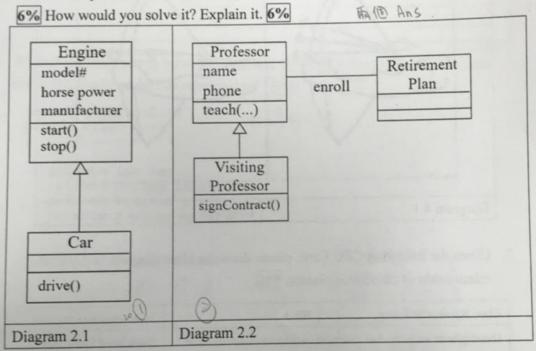
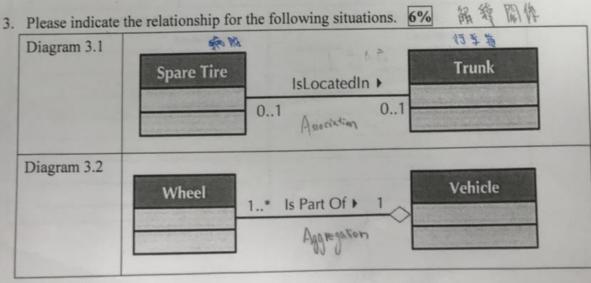
## System Analysis & Design Quiz 2

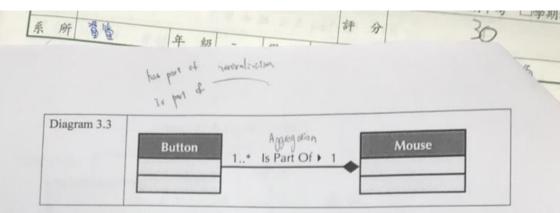
11/15/2017

Name:	王腳超	ID: <u>B1042041</u>	their applications.
1. Please of	escribe the differences for the	following statements and	解釋差見
	public class Dog imp		Market Market
	public class Dog exte	ends Animal	

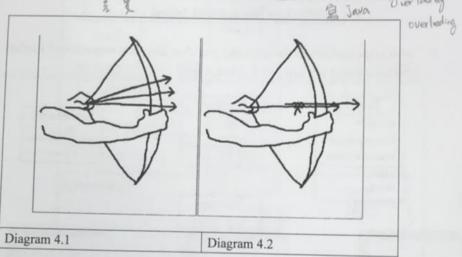
2. What is the problem of the following two class diagrams respectively? Explain it.







4. Which one describes overloading/overriding? 2% Which one performs at run time/compile time? 2% Describe an example for each in Java code. 6%



5. Given the following CRC Card, please draw the class diagram to depict the relationship of the related classes. 5%

Class Name: Old Patient	ID: 3	Type: Concrete, Domain	
Description: An individual that medical attention	needs to receive or has received	Associated Use Cases: 2	
Responsibilities Make appointment		Collaborators Appointment	
Calculate last visit			
Change status			
Provide medical history	Medical h	Medical history	
Andrew Street			

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Attributes:
Amount (double)
Insurance carrier (text)

Relationships:
Generalization (a-kind-of): Person

Aggregation (has-parts): Medical History

Other Associations: Appointment

6. What is the relationship between Dock and Slips? 5% Please identify the code that helps you describe this relationship. 5%

import java.util.\*;
public class Dock
{

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private int id; private String location; private boolean electricity; private boolean water;

private Vector slips;

Dock

location
electricity
water

(C. 301)
(El locations)
(et classes)
(c. com



```
public Dock(int anId, String aLocation, boolean anElectricity, boolean awater)
   setId(anId);
   setLocation(aLocation);
                                                  Sociation
   setElectricity(anElectricity);
   setWater(aWater);
   Slips = new Vector(10);
public void addSlipToDock(Slip aSlip)
   slips.addElement(aSlip);
   aSlip.setDock(this);
public Vector getSlips()
   { return slips;}
public void setId(int anId)
   ( id = anId; )
public void setLocation(String aLocation)
   ( location = aLocation; )
public void setElectricity(boolean anElectricity)
   { electricity = anElectricity;}
public void setWater(boolean aWater)
   { water = aWater;}
public int getId()
   { return id;}
public String getLocation()
   ( return location; )
public boolean getElectricity()
   ( return electricity;)
public boolean getWater()
   { return water;}
```

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- 7. To build a sequence diagram, adding messages is to show how they are passed from one object to another. There are a couple of ways to specify message sending, please identify the message type and draw the corresponding diagram based on the following description.
  - 1) With this option, the client sends the message to the supplier. If the supplier is not immediately ready to accept the message, the client abandons the message. 4%
  - 2) Using this option, the client sends the message to the supplier and waits for 6 seconds. If the supplier isn't ready to receive the message in that time, the client abandons the message. 4%
  - 3) With this option, the client sends the message to the supplier. The client then continues processing, without waiting to see if the message was received or not. 4%
- 8. The following walkthrough explains the DFD shown in the following Figure. 1. A

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CUSTOMER submits an ORDER. Depending on the processing logic, the FILL ORDER process either sends an ORDER REJECT NOTICE back to the customer or sends a PICKING LIST to the WAREHOUSE. 2. A COMPLETED ORDER from the WAREHOUSE is input to the CREATE INVOICE process, which outputs an INVOICE to both the CUSTOMER process and the ACCOUNTS RECEIVABLE data store. 3. A CUSTOMER makes a PAYMENT that is processed by APPLY PAYMENT. APPLY PAYMENT requires INVOICE DETAIL input from the ACCOUNTS RECEIVABLE data store along with the PAYMENT. APPLY PAYMENT also outputs PAYMENT DETAIL back to the ACCOUNTS RECEIVABLE data store and outputs COMMISSION to the SALES DEPT, BANK DEPOSIT to the BANK, and CASH RECEIPTS ENTRY to ACCOUNTING Please do the following:

1) Draw the use case diagram. 5%

2) Draw a <u>sequence diagram</u> to depict the most important use case you selected from 1). 15%

3) Based on the sequence diagram you have finished, please draw a class

diagram with necessary attributes and operations in each class. 10%

4) Draw a behavior state machine to depict an important class or the system as it goes through the whole process. 10%

客送 order

fill order中极直容声信用

