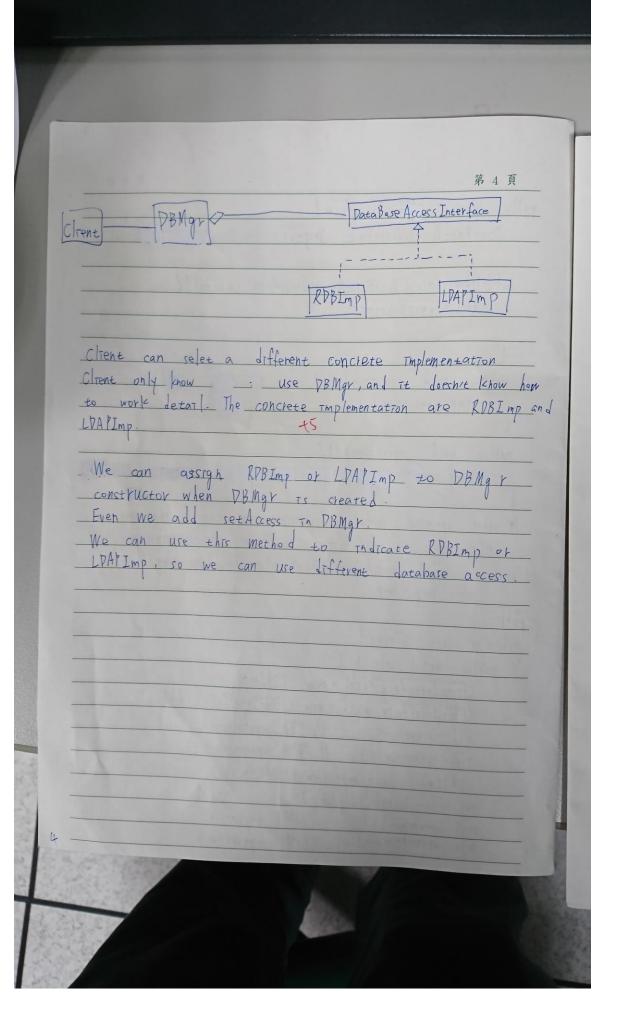


第 2 頁 public interface DataBase Access Interface 1 abstract public void operation ((1) abstract public void operation 2(); 413 public class RDBImp implements Data Base Access Interface [RDBImp (public void operation () { 11 implement RDB Implement specific behavior for operation/ public void operation 2(){ 11 implement RDB Implement specific behavior for Operation 2. public class LPAPImp implements Patabase AccessInterface & LDAPIMP () E public void operation ()[Uimplement LPAP Implement specific behavior for operation! public vord operation 2() & 11 im planent LDAR Implement specific behavior

```
public clase PBMgr . [
   Data Pase Access Interface Imp.
   DBMgr (Patabase Access Interface Tmp '
    this. TMP = TMP.;
   public void operation () (
   public void operation 2 () [
  A other operation including operations to change the imp
                             concrete implementation x
   ulic void setAccess (lataBaseAccessInterface Tmp) &
      this. Imp = Impi
 public class Crent ?
       RDBIng_ rabing= new RDBIng ();
       DBMgr - mgr = new DBMgr - (rdbImp);
       mgr operation(); // RTB operation/
          operation 2(); // RDB operation 2
               Idap Imp = new LDAP Impl);
      mat . set Access ( | dap Imp);
      mar operation (1) 1/LDAP operation ;
                        11 LDAP operation 2;
```



Nº 0570808 第 1 頁 國立雲林科技大學考試答案卷 考 別 □平時考 □期中考 □學期考 學號 B/0323024 姓名賴宥斯 Jīm 1. connect DB() and disconnect DB is concrete operation Bechase Get Diagram and Save Diagram To same way to connect and disconnect, so we use concret method in parent, they can shareable use query DB is primitive method The reason is, it's a abstract method, bee Diagram and Save Diagram need to overriding query DB, the implemention is different And query DB has to be used in template method Because we use query PB to read, update etc So It's primitive. processResult is factory method and hook method factory method reason: Because we use process Result to create state dragram. And we use high level class to call lower level class, it follow "Don't call us, we call you

Lower level class can different implement, let parent dass use.

stat diagram, but Save Diagram use process Result to do nothing

hook method reason - we can selet this action

so, It's a hook method

heed to do. bettragram use processkerult to create a

public class DBMgrE	第 2 頁
DBMgr(DBImplInterface Tmp)[
this. Tmp=Tmp;	
State Viagram get Diagram (String name) [
return imp. get Diagram (name);	
void save Diagram (State Diagram d) { imp. save Diagram (d);	
imp. save / iagram (d);	
public interface DBImplinterface [abstract State Diagram get Diagram (String name); abstract void save Diagram (State Diagram d); 3	
public class RDBImp implements DBImplinterface [
RDBImpl) {	
3	
State Diagram get Diagram (String hame) [
RDBImp Cmd sd = new bet Pragram ("RDB", nam sd-execute();	e);
return sd. getResult();	

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
public abstract class RDB Imp Cm d [
String type ; // : : ADB or LDAB.
D)ject vesu(t)
RDBImp Cm d (String type) E
this. type = type;
The state of the second
3
final vord execute ()[
connect(7B();
query DB();
disconnectob();
process lesult ();
3 catch (SQL Exception e) [
disconnect DB();
The state of the s
yord connect DB() (
According type to connect db.
3
Void disconnect()(
11 Disconnect db
3
Object getlesult () (
return result;
abstract voil process Result ();
The state (1);

Nº 0570885

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public	class Save Diagram extends RDBInpl Cmd [第2頁 State Diagram di
	Save Diagram (String type, State Diagram d) [super (type); this. d = d;
-	Void query DB () [If According type to save diagram to different data Void process Result () [If do nothing
1	class Edit Controller { public void use() { RDBImp rdbImp = hew RDBImp();
	DBMgr mgr= new DBMgr (rdb Imp); State Diagram d= mgr.get Diagram ("state Diagram"); mgr. save Diagram (d); // 1 use RDB database to work // U use LDAP database to work
	LDAPIMP (dapImp = new LDAPImp (); mgr = new DB Mgr (dapImp); State Diagram d2 = mgr. jet Diagram ("state Diagram"); mgr. save Diagram (d);

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# 所 電管 年級 回 學就 Plop23024 姓名 複名類、 Public abstract des Iterator Factory [public Iterator algorithm (Component C) [letion factory Method (ITSE); abstract Ienotor factory Merhod (Component C); } abstract Ienotor factory Merhod (Component C); public class Level Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); } public class In Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); } public class Post Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); } public class Post Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C);	學 年 學 期 日 期 考 別 □平時考 □期中考 □學期考
public abstract das Iterator Factory [public Iterator algorithm (Component C) [neturn factory Method (175t); abstract Iterator factory Method (Component C); public class Level Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); return new Level Order Iterator (C); } public class In Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); return new In Order Iterator (C); } return new In Order Iterator (C); } return new In Order Iterator (C);	科目評分
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public Iterator algorithm (Component C) (1 return factory Method (ITSt); 3 abstract Iterator factory Method (Component C); public class Level Order Iterator Factory extends Iterator Factory (Iterator factory Method (Component C); 3 character factory Method (Component C); 3 character factory Method (Component C); 4 return hew Level Order Iterator (C); 5 return hew In Order Iterator (C); 5 return hew In Order Iterator (C); 6 return hew In Order Iterator (C); 7 return factory Method (Component (C))	
public Iterator algorithm (Component C) (1 return factory Method (ITSt); 3 abstract Iterator factory Method (Component C); public class Level Order Iterator Factory extends Iterator Factory (Iterator factory Method (Component C); 3 character factory Method (Component C); 3 character factory Method (Component C); 4 return hew Level Order Iterator (C); 5 return hew In Order Iterator (C); 5 return hew In Order Iterator (C); 6 return hew In Order Iterator (C); 7 return factory Method (Component (C))	
abstract Interest factory Method (17st); abstract Interest factory Method (Component C); public class Level Order Interestory Extends Interestory E Interestor factory Method (Component C); public class In Order Interestory extends Interestory E return new Level Order Interestory extends Interestory E Interestory factory Method (Component C); return new In Order Interestory extends Interestory E return new In Order Interestory extends Interestory E return new In Order Interestory extends I terestory Factory Interestory factory Method (Component C) E	
abstract Icenotor factory Method (Component C); public class Level Order Iterator Factory extends Iterator Factory (L) Iterator factory Method (Component C); public class In Order Iterator Factory extends Iterator Factory (C); Trevator factory Method (Component C); yeturn new In Order Iterator (C); yeturn new In Order Iterator (C); J public class Post Order Iterator Factory extends Iteratory Factory (C); Iterator factory Method (Component C);	public Leerator algorithms, Component C] C
public class Level Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Peturn new Level Order Iterator (C); Jublic class In Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Jublic class Post Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Jublic class Post Order Iterator Factory extends Iterator Factory Iterator factory factory Method (Component C) [Iterator factory Method (C) [Iterator factor	letun factory Method (ITst);
public class Level Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Peturn new Level Order Iterator (C); Jublic class In Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Jublic class Post Order Iterator Factory extends Iterator Factory [Iterator factory Method (Component C); Jublic class Post Order Iterator Factory extends Iterator Factory Iterator factory factory Method (Component C) [Iterator factory Method (C) [Iterator factor	
Iterator factory Method (Component C) { return hew Level Order Iterator (C); } public class In Order Iterator factory extends Iterator Factory (C) Iterator factory Method (Component C); return new In Order Iterator (C); } public class Post Order Iterator Factory extends Iteratory Factory Iterator factory Method (Component C) (C)	abstract Iterator factory Method C. Component
Iterator factory Method (Component C) { return hew Level Order Iterator (C); } public class In Order Iterator factory extends Iterator Factory (C) Iterator factory Method (Component C); return new In Order Iterator (C); } public class Post Order Iterator Factory extends Iteratory Factory Iterator factory Method (Component C) (C)	
Iterator factory Method (Component C) { return hew Level Order Iterator (C); } public class In Order Iterator factory extends Iterator Factory (C) Iterator factory Method (Component C); return new In Order Iterator (C); } public class Post Order Iterator Factory extends Iteratory Factory Iterator factory Method (Component C) (C)	
Iterator factory Methol [Component c .) & Yeturn New In Order Iterator (C); J Public class Post Order Iterator Factory extends I terator Factory Iterator factory Method (Component) () &	Iterator factory Method (Component C) {
Iterator factory Method [Component c .) & Yeturn New In Order Iterator (c); J Public class Post Order Iterator Factory extends I terator Factory Iterator factory Method (Component) () &	}
Iterator factory Method (Component) () E	Iterator factory Method [Component c .) &
Iterator factory Method (Component) () E	3

n

public class Pre Order Iterator Factory extends Iterator Factory
Iterator factory Method (Component) C-
return new PreDrJer Iterator (c);
3
}
public class Iterator [
Arraylist Object > result ill save to soft result
Object hext () {
return hull
boolean hasNext() {
If (terult-size 7 pos) return true;
return false;
void remove () {
Int T = 0;
for (= pos -1; T < / ist. size -2; T++)
$ \overline{ist}, \underline{get}(\overline{i}) = \overline{ist}, \underline{get}(\overline{i+1}) $
Tst. get(T) = null ;
Iterator (){}

public	class In Order Iterator extend Iterator [
1	In Order Iterator (Component C) [.
	// Use c to in order
	. // And save Into result
}	
public	class Level Order Iterator extends Iterator E
	Level Order Iterator (Compohent C) [
	1/ use c to level order
	11 And cave theo resule
	3
}	Class Post Order Iterator extends I terator & Post Order Iterator (Component C) { // Use c to post order // And save Theo result
public	Class Pre Order Iterator extends Iterator [Pre Order Iterator (Component c) { // Use c to pre order
	And save into result
3	