

## WS25 - EXAM 2 UML Exercise REVIEW

### Rubric:

NAME: grade 8/10 -> 12/15

Q38-51

A ->

- name /0.5
- attributes /0.2
- constructor /0.2
- setters & getters /0.1

B ->

- name /0.5
- attribute /0.5

C ->

- extends /0.5
- attribute /0.2
- constructor /0.2
- setters & getters /0.1

D ->

- extends /0.4
- constructor /0.4
- setters & getters /0.2

E ->

- name /0.8
- toString /0.2

F ->

- name /0.8
- toString /0.2

G ->

- implements /0.5
- method m() /0.5

H ->

- interface and name /1.0
- method m /1.0

J ->

- name /0.8
- toString /0.2

main ->

- A a /0.4
- ArrayList<B> bs /0.4
- C[ ] cs = new C[3] /0.4
- D[ ] ds = new D[4] /0.4
- println() /0.4

## **DATE: 18th january2022**

1 ALMACHE LITARDO ANDERSON MOISES 5.7/10 -> 8.5/15  
Inspector: Altamirano Cristhian

Q38-51

A ->

➤ name	0.5/0.5
➤ attributes	0.2/0.2
➤ constructor	0.2/0.2
➤ setters & getters	0.1/0.1

B ->

name	0.5/0.5
attribute	0/0.5

C ->

extends	0.5/0.5
➤ attribute	0.5/0.2
➤ constructor	0.2/0.2
➤ setters & getters	0/0.1

D->

extends	0.4/0.4
constructor	0.4/0.4
setters & getters	0.2/0.2

E->

name	0.8/0.8
to string	0.2/0.2

F->

name	0.8/0.8
to string	0.2/0.2

G->

implements	0/0.5
method m()	0/0.5
I don't create the class G	

H->

interface and name	0/1.0
method m	0/1.0

J->

- a. name 0/0.8
- b. to string 0/0.2

main->

- A a 0/0.4
- > ArrayList<B> bs 0/0.4
- > C[ ] cs = new C[3] 0/0.4
- > D[ ] ds = new D[4] 0/0.4
- > println() 0/0.4

2 ALTAMIRANO BENALCAZAR CRISTHIAN ALEXANDER 7,4/10 → 11,1/15  
Inspector: Alvarez Michelle

Q38-51

A ->

```

1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6 *
7 * @author Altamirano Cristhian      All the classes from A to J are complete
8 */
9
10 //name          0.5 /0.5
11 //attributes    0.2 /0.2
12 //constructor   0.2 /0.2
13 //setters & getters 0.1/0.1
14 //You need the "To String"
15
16
17 public abstract class A {      // Clase name
18     private ArrayList<A> as = new ArrayList<>();
19     private A a1;
20     private A a2;
21
22     /**
23      * @return the as
24      */
25     public ArrayList<A> getAs() {
26         return as;
27     }

```

- > name 0.5/0.5
- > attributes 0.2/0.2
- > constructor 0.2/0.2
- > setters & getters 0.1/0.1

B ->

```

1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6 *
7 * @author Altamirano Cristhian
8 */
9 public class B extends A{           /| 0.2/0.5 You do not need the extends
10     private ArrayList<B> hs = new ArrayList<>(); // OK 0.5/0.5
11
12     public B() {
13     }
14
15     @Override
16     public String toString() {
17         return "B{" + "hs=" + getHs() + '}';
18     }
19

```

➤ name 0.2/0.5

➤ attribute 0.5/0.5

C ->

```
3 | import java.util.ArrayList;
4 |
5 | /**
6 |  *
7 |  * @author Altamirano Cristhian
8 |  */
9 | public class C extends A { // extends 0.5/0.5
10|     private ArrayList<E> es = new ArrayList<E>(); // 0.2/0.2
11|     // The constructor is missing 0/0.2
12|
13|     public C() {
14|     }
15|
16|     @Override
17|     public String toString() {
18|         return "C{" + "es=" + getEs() + '}';
19|     }
20|
21|     /**
22|      * @return the es
23|     */
24|     public ArrayList<E> getEs() { //Setters and getters 0.1/0.1
25|         return es;
26|     }
27| }
```

➤ extends 0.5/0.5

➤ attribute 0.2/0.2

➤ constructor 0/0.2

➤ setters & getters 0.1/0.1

D ->

```
1 | package ec.edu.espe.question.model;
2 |
3 | import java.util.ArrayList;
4 |
5 | /**
6 |  *
7 |  * @author Altamirano Cristhian
8 |  */
9 | public class D extends A { // 0.4/0.4
10|     private ArrayList<F> fs = new ArrayList<F>();
11|     private ArrayList<E> es = new ArrayList<E>();
12|
13|     public D() { //This constructor must have the ArrayList from F and A 0.1/0.1
14|     }
15|
16|     @Override
17|     public String toString() {
18|         return "D{" + "fs=" + getFs() + ", es=" + getEs() + '}';
19|     }
20|
21|     /**
22|      * @return the fs
23|     */
24|     public ArrayList<F> getFs() { //0.2/0.2 Setter and getters
25|         return fs;
26|     }
27| }
```

➤ extends 0.4/0.4

➤ constructor 0.2/0.4

➤ setters & getters 0.2/0.2

E ->

```
package ec.edu.espe.question.model;
|
| /**
|  *
|  * @author Altamirano Cristhian
|  */
| public class E { // Name 0.8/0.8
|     /**
|      * @return
|     */
|     @Override
|     public String toString() { //To String 0.2/0.2
|         return "E{" + '}';
|     }
| }
```

➤ name 0.8/0.8

➤ **toString** 0.2/0.2

F ->

```
1 package ec.edu.espe.question.model;
2
3 /**
4 *
5 * @author Altamirano Cristhian
6 */
7 public class F { // Name 0.8/0.8
8
9
10    @Override
11    public String toString() { //To String 0.2/0.2
12        return "F(" + ')';
13    }
14
15 }
```

➤ **name** 0.8/0.8

➤ **toString** 0.2/0.2

G ->

```
1 package ec.edu.espe.question.model;
2
3 /**
4 *
5 * @author Altamirano Cristhian
6 */
7 public class G { //This class implements H 0.1/0.5
8
9     public J(){ // It must be called method m 0.2/0.5
10    }
11
12
13 }
```

➤ **implements** 0.1/0.5

➤ **method m()** 0.2/0.5

H ->

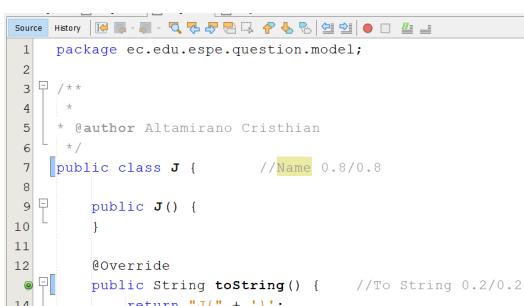
```
1 package ec.edu.espe.question.model;
2
3 /**
4 *
5 * @author Altamirano Cristhian
6 */
7 public class H { // It must be Interface 0.5/1.0
8
9     public H(){ // You need the public void m
10    }
11
12    @Override
13    public String toString() {
14        return "H(" + ')';
15    }

```

➤ **interface and name** 0.5/1.0

➤ **method m** 0 / 1.0

J ->



The screenshot shows a Java code editor with the following code:

```
1 package ec.edu.espe.question.model;
2
3 /**
4 *
5 * @author Altamirano Cristhian
6 */
7 public class J { //Name 0.8/0.8
8
9     public J(){
10    }
11
12    @Override
13    public String toString() { //To String 0.2/0.2
14        return "J(" + ')';
15    }
}
```

➤ **name** 0.8/0.8

➤ **toString** 0.2/0.2

2. main ->

```

1 package ec.edu.espe.question.view;
2
3 import ec.edu.espe.question.model.A;
4 import ec.edu.espe.question.model.C;
5 import ec.edu.espe.question.model.E;
6 import ec.edu.espe.question.model.F;
7 import ec.edu.espe.question.model.J;
8 import java.util.ArrayList;
9
10 /**
11  * 
12  * @author Altamirano Cristhian
13  */
14 public class Question38_51 {
15     public static void main(String[] args){
16
17         //You need to declare a C y D          0/0.4
18
19         ArrayList<A> as = new ArrayList<A>();
20         J j = new J();
21         E e = new E();
22         F f = new F();
23
24
25         //You need to Print the J,E,F with System.out.println
26
27         System.out.println("J:" + j);           // 0.3/0.4
28         System.out.println("E:" + e);           // You also need to print the A y E
29         System.out.println("F:" + f);
30         System.out.println("CristhianAltamirano_Question38_51");
31
32     }

```

- A a 0/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.3/0.4

### 3 ALVAREZ RAMIREZ MICHELLE ESTEFANIA

Inspector Andrade Alan

grade: 9,72/15 6,48/10

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

B ->

```

8  /*
9   public class B extends A{ //
10      private ArrayList<H> hs = new ArrayList<H>();
11

```

C ->

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.4/0.4
- constructor 0.3/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->

```

6|   /*
7|   public class G { //0
8|
9|     public G() {
10|
11|
12|       @Override
13|       public String toString() {
14|         return "G{" + '}';
15|       }
16|

```

H ->

- interface and name 1.0/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0.2/0.2

Main->

- A a 0/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.2/0.4

4 ANDRADE CARATE ALAN DAMIAN grade: 5.4/10 -> 8.1/15  
 Inspector: Andrango Alex

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0.1/0.1

B->

- name 0.5/0.5
- attribute 0.3/0.5

C->

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

D->

- extends 0.4/0.4
- constructor 0.3/0.4
- setters & getters 0.2/0.2

E->

```

    ➤ name          0.8/0.8
    ➤ toString      0.2/0.2
F->
    ➤ name          0.8/0.8
    ➤ toString      0.2/0.2
G->
    ➤ implements   0/0.5
    ➤ method m()   0/0.5
H->
    ➤ interface and name 0/1.0
    ➤ method m       0/1.0
J->
    ➤ name          0/0.8
    ➤ toString      0/0.2
main ->
    ➤ A a           0/0.4
    ➤ ArrayList<B> bs 0/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println()      0/0.4

```

## 5 ANDRANGO ESPINOSA ALEX PAUL

Q38-51

```

A ->
    ➤ name          0.5/0.5
    ➤ attributes    0.2/0.2
    ➤ constructor   0.0/0.2
    ➤ setters & getters 0./0.1
B->
    ➤ name          0.5/0.5
    ➤ attribute     0/0.5
C->
    ➤ extends       0/0.5
    ➤ attribute     0/0.2
    ➤ constructor   0/0.2
    ➤ setters & getters 0/0.1
D->
    ➤ extends       0/0.4
    ➤ constructor   0/0.4
    ➤ setters & getters 0/0.2
E->
    ➤ name          0.8/0.8
    ➤ toString      0/0.2
F->

```

```

    ➤ name          0.8/0.8
    ➤ toString      0/0.2
G->
    ➤ implements   0/0.5
    ➤ method m()   0/0.5
H->
    ➤ interface and name 1/1.0
    ➤ method m       0/1.0
J->
    ➤ name          0.8/0.8
    ➤ toString      0/0.2
main ->
    ➤ A a           0/0.4
    ➤ ArrayList<B> bs 0/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println()      0/0.4

```

## 6 ARROBA SOLORIZANO CRISTIAN ALEXANDER

Inspector: Asumaza Dylan

Q38-51

nota: grade 0/10 -> 0/15

```

A ->
    ➤ name          0/0.5
    ➤ attributes    0/0.2
    ➤ constructor   0/0.2
    ➤ setters & getters 0/0.1
B ->
    ➤ name          0/0.5
    ➤ attribute     0/0.5
C ->
    ➤ extends       0/0.5
    ➤ attribute     0/0.2
    ➤ constructor   0/0.2
    ➤ setters & getters 0/0.1
D ->
    ➤ extends       0/0.4
    ➤ constructor   0/0.4
    ➤ setters & getters 0/0.2
E ->
    ➤ name          0/0.8
    ➤ toString      0/0.2
F ->
    ➤ name          0/0.8
    ➤ toString      0/0.2

```

G ->

- implements 0/0.5
- method m() 0/0.5

H ->

- interface and name 0/1.0
- method m 0/1.0

J ->

- name 0/0.8
- toString 0/0.2

main ->

- A a 0/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

```
main
  ↗ main · espresso/ESPE202110-OOP-TC-7490/exams/errobac/
    Go to file Add file ...
```

README.md

folders creation V1.0

2 months ago

READEME.md

Edison Lascano's OOP exams

Observation: There is nothing uploaded to github

7 ASUMAZA GUALOTO DYLAN ALEXANDER

Inspector: Bravo Katherin

nota: grade 6,5/10 -> 9.50/15

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

```
import java.util.ArrayList;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
 * to ed:
 */

/**
 *
 * @author dylanasumaza
 */
public class A {
    private ArrayList<A> as;
    public A(ArrayList<A> as) {
        this.as = as;
    }
    @Override
    public String toString() {
        return "A{" + "as=" + as + '}';
    }
    /**
     * @return the as
     */
    public ArrayList<A> getAs() {
        return as;
    }
}
```

B ->

- name 0.5/0.5
- attribute 0.5/0.5

C ->

- extends 0.4/0.5
- attribute 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0.1/0.1

```

/*
 * @author dylanasumaza
 */
public class C extends A{
    private ArrayList<E> es;
    public C(ArrayList<E> es,ArrayList<a> as) {
        super(as);
        this.es = es;
    }

    @Override
    public String toString() {
        return "C{" + "es=" + getEs() + '}';
    }

    /**
     * @return the es
     */
    public ArrayList<E> getEs() {
        return es;
    }
}

```

D ->

- extends 0.3/0.4
- constructor 0.2/0.4
- setters & getters 0.2/0.2

E ->

- name 0.7/0.8
- toString 0.1/0.2

```

package ec.edu.espe.model;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Li...
 * Click nbfs://nbhost/SystemFileSystem/Templates/Cli...
 */
/**
 *
 * @author dylanasumaza
 */
public class E {

    @Override
    public String toString() {
        return "E{" + '}';
    }
}

```

F ->

- name 0.8/0.8
- toString 0.2/0.2

```

package ec.edu.espe.model;

/*
 * Click nbfs://nbhost/SystemFileSystem/T...
 * Click nbfs://nbhost/SystemFileSystem/T...
 */
/**
 *
 * @author dylanasumaza
 */
public class F {

    @Override
    public String toString() {
        return "F{" + '}';
    }
}

```

G ->

- implements 0.4/0.5
- method m() 0.3/0.5

H ->

- interface and name 0.5/1.0
- method m 0.5/1.0

J ->

- name 0.8/0.8
- toString 0/0.2

```
package ec.edu.espe.model;
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Lic
 * Click nbfs://nbhost/SystemFileSystem/Templates/Clas
 */
/**
 *
 * @author dylanasumaza
 */
public class J {
```

main ->

- A a 0.2/0.4
- ArrayList<B> bs 0.4/0.4
- C[ ] cs = new C[3] 0.2/0.4
- D[ ] ds = new D[4] 0.3/0.4
- println() 0.1/0.4

8 BRAVO RODRIGUEZ KATHERIN DAYANNE

Inspector: Bravo Christian

nota: grade 7/10 -> 10/15

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

```
1 package ec.edu.espe.model;
2
3
4 import java.util.ArrayList;
5
6 /**
7 *
8 * @author Katherin Bravo
9 */
10 public class A {
11     private ArrayList<A> as;
12     public A(ArrayList<A> as){
13         this.as = as;
14     }
15     @Override
16     public String toString() {
17         return "A{" + "as=" + as + '}';
18     }
19     /**
20      * @return the as
21      */
22 }
```

B ->

C ->

- extends 0.4/0.5
- attribute 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0.1/0.1

```
[-] import java.util.ArrayList;

[-] /**
 * 
 * @author Katherin Bravo
 */
public class C extends A{
private ArrayList<E> es;
public C(ArrayList<E> es,ArrayList<E> as) {
super(as);
this.es = es;
}

@Override
public String toString() {
return "C{" + "es=" + getEs() + '}';
}

[-] /**
 * @return the es
 */
public ArrayList<E> getEs() {
return es;
}

[-] /**
 * @param es the es to set
 */
public void setEs(ArrayList<E> es) {
```

D ->  
E ->  
  ➤ name        0.7/0.8  
  ➤ toString     0.1/0.2

```
package ec.edu.espe.model;
```

```
[-] /**
 * 
 * @author Katherin Bravo
 */
public class E {

@Override
public String toString() {
return "E{" + '}';
}

}
```

F ->

```
> name      0.8/0.8
> toString  0.2/0.2

1 package ec.edu.espe.model;
2
3
4
5 /**
6 *
7 * @author Katherin Bravo
8 */
9 public class F {
10
11     @Override
12     public String toString() {
13         return "F{" + '}';
14     }
15
16 }
17
```

G ->

H ->

J ->

> name 0.6/0.8
> toString 0.2/0.2

```
1 package ec.edu.espe.model;
2
3
4 /**
5 *
6 * @author Katherin Bravo
7 */
8 public class J {
9     public String toString(){
10         return "J{" + "}";
11     }
12 }
13
```

main ->

> A a 0.2/0.4
> ArrayList<B> bs 0.4/0.4
> C[ ] cs = new C[3] 0.2/0.4
> D[ ] ds = new D[4] 0.1/0.4
> println() 0.1/0.4

TOTAL:7

Q38-51

Nota: 5.5/10 8.25/15

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1
- 

B ->0

C ->

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

D ->

- extends 0/0.4
- constructor 0/0.4
- setters & getters 0/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->0

H ->0

J ->0

- name 0.8/0.8
- toString 0.2/0.2

main ->

- a 0.4/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.1/0.4

10 BUSTILLOS MONTENEGRO PABLO SEBASTIAN

Inspector: Benjamin Cadena

Nota : 7.6/10 —— 11.5./15

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

B ->

- name 0.5/0.5
- attribute 0/0.5

C ->

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.4/0.4
- constructor 0.4/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->

- implements 0.5/0.5
- method m() 0/0.5

H ->

- interface and name 0.5/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0.2/0.2

main ->

- A a 0.4/0.4
- ArrayList<B> bs 0.4/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.1/0.4

11 CADENA ROMAN BENJAMIN ABEL Total: 6.1/10 - 9.15/15  
 Inspector: Sebastián Caisatoya

Q38-51

A ->

name	0.5/0.5
attributes	0.2/0.2
constructor	0/0.2
setters & getters	0/0.1

B ->		
	name	0.5/0.5
	attribute	0/0.5
C ->		
	name	0.5/0.5
	attributes	0/0.2
	constructor	0/0.2
	setter & getters	0/0.2
D ->		
	extends	0.4/0.4
	constructor	0/0.4
	setters & getters	0/0.1
E ->		
	name	0.8/0.8
	toString	0/0.2
F ->		
	name	0.5/0.5
	toString	0/0.2
G ->		
	implements	0.5/0.5
	method m()	0/0.5
H ->		
	interface and name	1.0/1.0
	method extra	0/1.0
J ->		
	name	0.8/0.8
	attributes	0/0.2
main ->		
	A a	0.4/0.4
	ArrayList<B> bs	0/0.4
	C[ ] cs = new C[3]	0/0.4
	D[ ] ds = new D[4]	0/0.4
	println()	0/0.4

```

/*
 *
 * @author Benjamin Cadena OOPTech ESPE-DCCO
 */
public class A {           //0.5
    ArrayList<A> as;      //0.2
}

/*
 *
 * @author Benjamin Cadena
 */
public class J {           //0.8
}

/*
 *
 * @author Benjamin Cadena
 */
public class E {           //0.8
}

```

```

 * @author Benjamin Cadena
 */
public class Exam2UMLToCode {
    public static void main() // TODO code application
}

-- * @author Benjamin Cadena OO
 */
public interface H { //1.0
}

* @author Benjamin Cadena
*/
public class C extends A {
}

* @author Benjamin Cadena
*/
public class D extends A {
}

* @author Benjamin Cadena OO
*/
public class G implements H {
}

* @author Benjamin Cadena
*/
public class B {
}

* @author Benjamin Cadena
*/
public class Exam2UMLToCode {
    public static void main() {
        A a;
        B b;
        C c;
        D d;
        E e;
    }
}

```

12 CAISATOA RAMIREZ SEBASTIAN BERNARDO (Total: 6,7/10 - 10.05/15)

Inspector: Andy Josue Calderon Merchan

Q38-51

A ->

➤ name	0.5/0.5
➤ attributes	0.2/0.2
➤ constructor	0.1/0.2
➤ setters & getters	0/0.1

3. B -> name 0.5/0.5  
method 0/0.5

4. C ->  
name 0.5/0.5  
attributes 0.2/0.2  
constructor 0/0.2  
setters & getters 0/0.1

5. D ->

name	0.4/0.4
constructor	0/0.4
setters & getters	0/0.2

6. E ->

name	0.8/0.8
toString	0/0.2

7. F ->

name	0.8/0.8
toString	0/0.2

8. G ->

implements	0.5/0.5
method m()	0/0.5

9. H ->

interface and name	1.0/1.0
method extra	0/1.0

10. J ->

- name 0.8/0.8
- toString 0/0.2

11. main -> 0.4/2.0

```
/*
 *
 * @author Caisatoya
 */
public class A {
    private ArrayList<A> as;

    public A(ArrayList<A> as) {
        this.as = as;
    }
    @Override
    public String toString() {
        return "A{" + "as=" + as + '}';
    }
}

/*
 *
 * @author Caisatoya
 */
public class J {

}

/*
 *
 * @author Caisatoya
 */
public class E {

}

/*
 */
public class C extends A{
    private ArrayList<E> es;

    public C(ArrayList<E> es, ArrayList<A> as) {
        super(as);
        this.es = es;
    }
}
```

```

* @author Caisatoa
*/
public class D extends A{

}

* @author Caisatoa
*/
public class G implements H {

}

* @author Caisatoa
*/
public class B {

}

* @author Caisatoa
*/
public class Class {
    public static void main(String []args ){
        J j;
        E e;
        F f;
        G g;
        A a;
    }
}

```

13 CALDERON MERCHAN ANDY JOSUE (grade:6.9/10 -> 10.35/15)  
 Inspector: Kerly Yadira Correa

A ->

- name 0.5/0.5
- attributes 0.1/0.2
- constructor 0/0.2
- setters & getters 0/0.1

```

1 /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Unit
3  * Click nbfs://nbhost/SystemFileSystem/Templates/UnitTests/Test据
4 */
5
6 package ec.edu.espe.answers38_51.model;
7
8 /**
9 *
10 * @author Andy Calderon
11 */
12 public class A {
13
14 }

```

B ->

- name 0.5/0.5
- methods 0/0.5

C ->

- name 0.3/0.5
- attributes 0.1/0.2

- constructor 0/0.2
- setter & getter 0.1/0.1

```
14 lines (11 sloc) | 299 Bytes
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/
3   * Click nbfs://nbhost/SystemFileSystem/Templates/
4   */
5
6 package ec.edu.espe.answers38_51.model;
7
8 /**
9  *
10 * @author Andy Calderon
11 */
12 public class C {
13
14 }
```

D->

- name 0.3/0.4
- constructor 0/0.4
- setter & getter 0.1/0.2

```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/
3  */
4
5
6 package ec.edu.espe.answers38_51.model;
7
8 /**
9  *
10 * @author Andy Calderon
11 */
12 public class D {
13
14 }
```

E->

- name 0.8/0.8
- attributes 0/0.2

```
5
6 package ec.edu.espe.answers38_51.model;
7
8 /**
9  *
10 * @author Andy Calderon
11 */
12 public class E {
13
14 }
```

F->

- name 0.8/0.8
- attributes 0/0.2

G->

- name 0.5/0.5
- method m 0/0.5

H->

- name 1.0/1.0

J ->

- name 0.8/0.8
- to String 0/0.2

Main-> 1/2

Inspector : Darling Cruz

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0/0.1

```
1  * @author USUARIO
2  */
3  public class A {
4      A a[] = new A[7];
5      // ArrayList<B> bs = ArrayList<>();
6
7      public void m(C c){
8          System.out.println("method m of class A, receiving a C object" + c );
9      }
10
11     public C m(){
12         return new C();
13     }
14 }
```

B ->

- name 0.5/0.5
- attribute 0/0.5

C ->

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

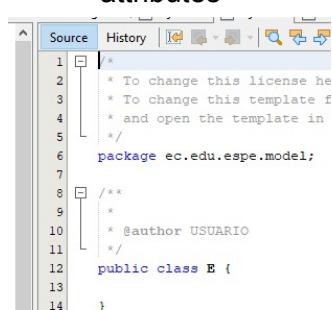
```
6  package ec.edu.espe.model;
7
8  /**
9   *
10  * @author USUARIO
11  */
12 public class C extends A {
13 }
```

D ->

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- attributes 0/0.2



The screenshot shows a code editor window with the tab 'Source' selected. The code is as follows:

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package ec.edu.espe.model;
7
8  /**
9   *
10  * @author USUARIO
11  */
12 public class E {
13 }
```

F ->

- name 0.8 /0.8
- to String 0 /0.2

```

    * @author USUARIO
    */
public class F {

}

G ->
    ➤ implements 0.5/0.5
    ➤ method m() 0.5/0.5

* @author USUARIO
*/
public class G implements H {

    public void G(String connectionString){
        System.out.println("Conect");
    }

    public void m(J j){
    }
}

H ->
    ➤ interface and name 1.0/1.0
    ➤ method m 1.0/1.0

* @author USUARIO
*/
public interface H {
    public void G(String connectionString);
    public void m(J j);
}

J ->
    ➤ name 0.8/0.8
    ➤ to String 0.2/0.2

* @author USUARIO
*/
public class J {
    public String to String(){
        return "J";
    }
}

main ->
    ➤ A a 0.4/0.4
    ➤ ArrayList<B> bs 0/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println() 0/0.4
    total 0.4

```

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.1/0.2
- setters & getters 0/0.1

```
* @author darling.cruz
*/
public class A {
A a[] = new A[7];
// ArrayList<B> bs = ArrayList<>();

public void m(C c){
System.out.println("method m of class A, receiving a C object"+ c );
}

public C m(){
    return new C();
}
}
```

B ->

- name 0.5/0.5
- attribute 0.5/0.5

C ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0/0.2
- setters & getters 0/0.1

```
* @author darling.cruz
/*
public class C extends A {

private ArrayList<E> es = new ArrayList<>();

public C() {
}
}
```

D ->

- extends 0.4/0.4
- constructor 0.4/0.4
- setters & getters 0/0.2

E ->

- name 0.8/0.8
- attributes 0.2/0.2

```
* @author darling.cruz
/*
public class E {
    public E() {
}
}
```

F ->

- name 0.8 /0.8
- to String 0.2/0.2

```
* @author darling.cruz
/*
public class F {
    public F() {
}

@Override
public String toString() {
    return "F{" + '}';
}
}
```

G ->  
➤ implements 0.5/0.5  
➤ method m() 0.5/0.5

H ->  
➤ interface and name 1,0/1.0  
➤ method m 1,0/1.0

```
* @author darling.cruz
*/
public interface H {
    public ArrayList<B> bs = new ArrayList<>();
}
```

J ->  
➤ name 0.8/0.8  
➤ to String 0.2/0.2

```
* @author darling.cruz
*/
public class J {
    public J() {
    }

    @Override
    public String toString() {
        return "J{" + '}';
    }
}
```

main ->  
➤ A a 0.4/0.4  
➤ ArrayList<B> bs 0.4/0.4  
➤ C[ ] cs = new C[3] 0/0.4  
➤ D[ ] ds = new D[4] 0/0.4  
➤ println() 0/0.4  
Total 0.8

Total: 7.6/10 -> 11.4/15

16 DE LA CRUZ QUINGA ALEJANDRO SEBASTIAN  
Inspector Jaime evar

A ->  
➤ name 0.5/0.5  
➤ attributes 0.2/0.2  
➤ constructor 0.2/0.2  
➤ setters & getters 0.1/0.1  
➤  
B ->name 0.5/0.5  
➤ attribute 0/0.5

C ->  
➤ extends 0.5/0.5

➤ attribute 0.2/0.2  
➤ constructor 0/0.2  
➤ setters & getters 0.1/0.1

D ->

➤ extends 0.4/0.4  
➤ constructor 1/0.4  
➤ setters & getters 0.2/0.2

E ->

➤ name 0.8/0.8  
➤ toString 0.2/0.2

F ->

➤ name 0.8/0.8  
➤ toString 0.2/0.2

G ->

➤ implements 0/0.5  
➤ method m() 1/0.5

H ->

➤ interface and name 1/1.0  
➤ method m 1/1.0

J ->

➤ name 0.8/0.8  
➤ toString 0.2/0.2

main ->

➤ A a 0.4/0.4  
➤ ArrayList<B> bs 0/0.4  
➤ C[ ] cs = new C[3] 0/0.4  
➤ D[ ] ds = new D[4] 0/0.4  
➤ println() 0.4/0.4

Total → 8.8 -> 12.5

17 EIVAR DAGUA JAIME MAURICIO Total: 6,3/10 ->9.45/15  
inspector Mayerly Garcia

Q38-51

A ->

➤ name 0.5/0.5  
➤ attributes 0.2/0.2  
➤ constructor 0.2/0.2  
➤ setters & getters 0.1/0.1

B->

name           0.2/0.5  
    ➤ attribute    0.4/0.5  
C ->  
    ➤ extends       0.5/0.5  
    ➤ attribute     0.2/0.2  
    ➤ constructor   0.2/0.2  
    ➤ setters & getters  0.1/0.1

D ->  
    ➤ extends       0.4/0.4  
    ➤ constructor   0/0.4  
    ➤ setters & getters  0.2/0.2

```
    /**
     * @return the fs
     */
    public ArrayList<F> getFs() {
        return fs;
    }
```

E ->  
    ➤ name        0.8/0.8  
    ➤ toString     0.2/0.2

F ->  
    ➤ name        0.8/0.8  
    ➤ toString     0.2/0.2

G ->  
    ➤ implements   0.1/0.5  
    ➤ method m()    0/0.5

H ->  
    ➤ interface and name  0/1.0  
    ➤ method m        0/1.0

```
public class H { // 0
```

J ->  
    ➤ name        0.8/0.8  
    ➤ toString     0.2/0.2

main ->  
    ➤ A a          0/0.4  
    ➤ ArrayList<B> bs  0/0.4  
    ➤ C[ ] cs = new C[3]  0/0.4  
    ➤ D[ ] ds = new D[4]  0/0.4

```
> println()          0/0.4
    public static void main(String[] args) {
```

18 GARCIA BARRETO MAYERLY PRISSILLA

inspector: Melissa Gómez

A ->

```
> name           0.5/0.5
> attributes     0.2/0.2
> constructor    0.2/0.2
> setters & getters 0.1/0.1
```

B ->

```
> name           0.5/0.5
> attribute      0.5/0.5
```

C ->

```
> extends        0.5/0.5
> attribute      0.2/0.2
> constructor    0/0.2
> setters & getters 0.1/0.1
```

D ->

```
> extends        0.4/0.4
> constructor    0/0.4
> setters & getters 0.2/0.2
```

E ->

```
    name           0.8/0.8
    toString       0.2/0.2
```

F ->

```
    name           0.8/0.8
    toString       0.2/0.2
```

G ->

```
> implements    0/0.5
> method m()    0/0.5
```

H ->

```
> interface and name 0/1.0
> method m        0/1.0
```

J ->

```
> name           0.8/0.8
> toString       0.2/0.2
```

main ->

```
> A a            0/0.4
> ArrayList<B> bs 0/0.4
> C[ ] cs = new C[3] 0/0.4
> D[ ] ds = new D[4] 0/0.4
> println()       0/0.4
```

total: 6.2=9.3/15

19 GOMEZ DIAZ MELISSA MALAYCA  
Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1
- 

B ->name 0.5/0.5  
➤ attribute 0/0.5

C ->

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->

- implements 0/0.5
- method m() 0/0.5

H ->

- interface and name 1/1.0
- method m /1.0

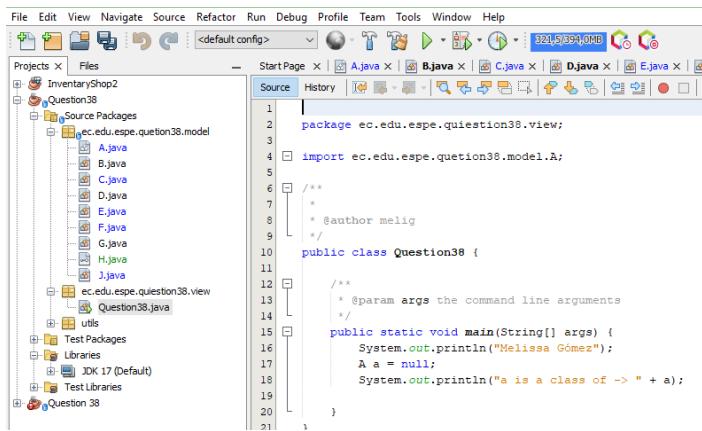
J ->

- name 0.8/0.8
- toString 0.2/0.2

main ->

- A a 0.2/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.4/0.4

Total → 7.7 → 11.50/15



The screenshot shows an IDE interface with a menu bar (File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help) and a toolbar with various icons. The left sidebar displays a project structure under 'Projects x'. It includes a 'Source Packages' folder containing 'Question38' and 'ec.edu.espe.question38.model' packages. The 'Question38' package contains files A.java through J.java. The 'ec.edu.espe.question38.model' package contains file A.java. The right side shows the code editor with the following Java code:

```
1 package ec.edu.espe.question38.view;
2
3 import ec.edu.espe.question38.model.A;
4
5 /**
6  * 
7  * @author melig
8  */
9 public class Question38 {
10
11
12 /**
13  * @param args the command line arguments
14 */
15 public static void main(String[] args) {
16     System.out.println("Melissa Gómez");
17     A a = null;
18     System.out.println("a is a class of -> " + a);
19 }
20 }
```

Inspector: Angel Guaman

20 GUAMAN VEJARANO ANGEL DAVID total -> 7,4/10 11,1/15

Inspector: Guitarra Jhon

Q38-51

A ->

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

B ->

- name 0.5/0.5
- attribute 0.5/0.5

C ->

- extends 0.5/0.5
- attribute 0.1/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.1/0.4

```
public class D {
    private ArrayList<F> fs = new ArrayList<>();
    private E[] es = new E[5];
```

- constructor 0.4/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

```

G ->
    ➤ implements      0.1/0.5
    ➤ method m()      0/0.5
H ->
    ➤ interface and name 0.1/1.0
    ➤ method m          0/1.0
J ->
    ➤ name            0.8/0.8
    ➤ toString         0.2/0.2
main ->
    ➤ A a             0/0.4
    ➤ ArrayList<B> bs 0.4/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println()        0.2/0.4

```

## 21 GUITARRA SANCHEZ JHON ALEXANDER

Inspector: Guzman Jose

Q38-51

```

A ->
    ➤ name           0.5/0.5
    ➤ attributes     0.2/0.2
    ➤ constructor    0.1/0.2
    ➤ setters & getters 0.1/0.1
    ➤
B ->
    ➤ name           0.5/0.5
    ➤ attribute       0/0.5
C ->
    ➤ extends        0.5/0.5
    ➤ attribute       0/0.2
    ➤
    ➤ private ArrayList<E> es = new ArrayList<>(); //0.0
    ➤
    ➤ constructor    0.0/0.2
    ➤
    ➤ //0.0
    ➤
    ➤ setters & getters 0.1/0.1

```

```

D ->
    ➤ extends        0.4/0.4
    ➤ constructor    0.2/0.4
    ➤ setters & getters 0.2/0.2

```

```

E ->
    ➤ name           0.8/0.8
    ➤ toString        0.2/0.2

```

```

F ->
  ➤ name          0.8/0.8
  ➤ toString      0.2/0.2
G ->
  ➤ implements    0/0.5
  ➤ method m()    0/0.5
H ->
  ➤ interface and name 0/1.0
  ➤ method m        0/1.0
J ->
  ➤ name          0.8/0.8
  ➤ toString      0.2/0.2
main ->
  ➤ A a           0/0.4
  ➤ ArrayList<B> bs   0/0.4
  ➤ C[ ] cs = new C[3] 0/0.4
  ➤ D[ ] ds = new D[4] 0/0.4
  ➤ println()      0.4/0.4
Total -> 6.5/10  9.75/15

```

```

* @author Guitarra Jhon
*/
public abstract class A { //0.5

    private ArrayList<A> as = new ArrayList<>(); //0.2

    * @author Guitarra Jhon
    */
    public class E { //0.8
        public E() {
        }

        @Override
        public String toString() { //0.2
            return "E{" + '}';
        }
    }

    * @author Guitarra Jhon
    */
    public class F { //0.8
        public F() {
        }

        @Override
        public String toString() { //0.2
            return "F{" + '}';
        }
    }

    * @author Guitarra Jhon
    */
    public class G { //0.0
        public G() {
        }

        @Override
        public String toString() {
            return "G{" + '}';
        }
    }
}

```

```
> name          0.5/0.5  
> attributes    0.1/0.2  
> constructor   0.1/0.2  
> setters & getters  0.1/0.1  
B ->name      0.5/0.5  
> attribute    0-5/0.5
```

```
C -> extends  0/0.5  
> attribute   0/0.2  
> constructor  0/0.2  
> setters & getters  0/0.1
```

```
D -> extends  0/0.4  
> constructor  0/0.4  
> setters & getters  0/0.2
```

```
E ->  
    name      0.8/0.8  
    toString   0/0.2
```

```
F -> name      0.8/0.8  
> toString    0.2/0.2
```

```
    @Override  
    public String toString() {  
        return "F{" + "x=" + x + '}';  
    }  
> /*
```

```
G ->implements 0.5/0.5  
> method m()  /0.5
```

```
H -> interface and name 1.0/1.0  
> method m     /1.0
```

```
J -> name      0.8/0.8  
> toString    0/0.2
```

```
4 | */  
5 | package ec.edu.espe.Q38.model;  
6 |  
7 | /*  
8 | * @author Jose Guzman  
9 | */  
0 | public class J {           //0.8  
1 |}  
2 |  
3 |
```

main ->

```
> A a          0/0.4  
> ArrayList<B> bs 0/0.4  
> C[ ] cs = new C[3] 0/0.4  
> D[ ] ds = new D[4] 0/0.4  
> println()    0/0
```

Total 6.2/10      9.3/15

A -&gt;

- name 0.5/0.5
- attributes 0.1/0.2
- constructor 0.1/0.2
- setters & getters 0.1/0.1

B -&gt;

C -&gt;

- extends 0.5/0.5
- attribute 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

D -&gt;

- extends 0.4/0.4
- constructor 0.4/0.4
- setters & getters 0.1/0.2

E -&gt;

- name 0.8/0.8
- toString 0.1/0.2

F -&gt;

- name 0.8/0.8
- toString 0.1/0.2

G -&gt;

- implements 0.2/0.5
- method m() 0.5/0.5

H -&gt;

- interface and name 0.0/1.0
- method m 1.0/1.0

J -&gt;

- name 0.8/0.8
- toString 0.2/0.2

main -&gt;

- A a 0.1/0.4
- ArrayList<B> bs 0.1/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

Total 4.93/10 7.4/15

Q38-51 5.6= 8.4

A ->

> name	0.5/0.5
> attributes	0.1/0.2
> constructor	0.1/0.2
> setters & getters	0.1/0.1

B ->

C ->

> extends	0.5/0.5
> attribute	0.2/0.2
> constructor	0.2/0.2
> setters & getters	0.1/0.1

D ->

> extends	0.4/0.4
> constructor	0.4/0.4
> setters & getters	0.1/0.2

E ->

> name	0.8/0.8
> toString	0/0.2

F ->

> name	0.8/0.8
> toString	0/0.2

G ->

> implements	0.1/0.5
> method m()	0.5/0.5

H ->

> interface and name	0.0/1.0
> method m	1.0/1.0

J ->

> name	0.8/0.8
> toString	0/0.2

main ->

> A a	0.1/0.4
> ArrayList<B> bs	0/0.4
> C[ ] cs = new C[3]	0/0.4
> D[ ] ds = new D[4]	0/0.4
> println()	0/0.4

25 LINCANGO CRIOLLO JOSE DANIEL **Total 4.1**

Inspector: Maisincho Richar

Q38-51

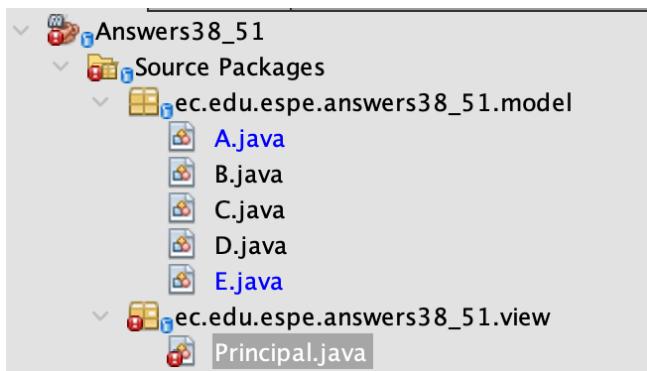
A ->

> name	0.2/0.5
> attributes	0.1/0.2
> constructor	0.1/0.2

```

    ➤ setters & getters      0/0.1
B ->
    ➤ name          0/0.5
    ➤ attribute     0/0.5
C ->
    ➤ extends        04/0.5
    ➤ attribute       0/0.2
    ➤ constructor    0/0.2
    ➤ setters & getters 0/0.1
D ->
    ➤ extends        0.3/0.4
    ➤ constructor    0.2/0.4
    ➤ setters & getters 0/0.2
E ->
    ➤ name          0.3/0.8
    ➤ toString       0/0.2
F ->
    ➤ name          0.4/0.8
    ➤ toString       0.1/0.2
G ->
    ➤ implements    0.4/0.5
    ➤ method m()    0.1/0.5
H ->
    ➤ interface and name 0/1.0
    ➤ method m       0/1.0
J ->
    ➤ name          0.2/0.8
    ➤ toString       0/0.2
main ->
    ➤ A a           0.3/0.4
    ➤ ArrayList<B> bs 0.2/0.4
    ➤ C[ ] cs = new C[3] 0.2/0.4
    ➤ D[ ] ds = new D[4] 0.2/0.4
    ➤ println()      0.2/0.4

```



A ->

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

B ->

- name 0.5/0.5
- attribute 0.3/0.5

C ->

- extends 0/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

D ->

- extends 0/0.4
- constructor 0/0.4
- setters & getters 0/0.2

E ->

- name 0.8/0.8
- toString 0/0.2

F ->

- name 0/0.8
- toString 0/0.2

G ->

- implements 0/0.5
- method m() 0.5/0.5

H ->

- interface and name 0/1.0
- method m 1.0/1.0 Extra

J ->

- name 0.5/0.8
- toString 0/0.2

main ->

```

> A a          0/0.4
> ArrayList<B> bs    0/0.4
> C[ ] cs = new C[3] 0.1/0.4
> D[ ] ds = new D[4] 0.1/0.4
> println()      0/0.4

/*
public class Principal {
    public static void main (){
        public void A(){
            public class B{
                public class G(){
                    +m(j,J);
                }
            }
            public class C{
            }
            public class D{
            }
            public class E{
            }
        }
    }
}

public class F(){
}

public Interface H(){
    +m(b,B);
    +m(j,J);
}

public class I{
}

```

## 27 MALDONADO BASTIDAS MATEO STEFANO

Inspector: Leonel Mantuano

Calificación: 3.1/10 —> Grade: 2.06/15

Q38-51

A ->

- > name 0.5/0.5
- > attributes 0/0.2
- > constructor 0/0.2
- > setters & getters 0/0.1

B ->

- > name 0.5/0.5
- > attribute 0/0.5

C ->

- > extends 0.5/0.5
- > attributes 0/0.2
- > constructor 0/0.2
- > setters & getters 0/0.1

D ->

- > extends 0/0.4
- > constructor 0/0.4
- > setters & getters 0/0.2

E ->

➤ name 0.8/0.8  
➤ toString 0/0.2

F ->  
➤ name 0.8/0.8  
➤ toString 0/0.2

G ->  
➤ Implements 0/0.5  
➤ method m() 0/0.5

H ->  
➤ interface and name 0/1.0  
➤ method m 0/1.0

J ->  
➤ name 0/0.8  
➤ toString 0/0.2

main ->  
➤ A a 0/0.4  
➤ ArrayList<B> bs 0/0.4  
➤ C[ ] cs = new C[3] 0/0.4  
➤ D[ ] ds = new D[4] 0/0.4  
➤ println() 0/0.4

## 28 MANTUANO FERNANDEZ LEONEL FERNANDO

Inspector: Anthony Morales

Grade: 1.8/10 → Grade: 1.2/15

A ->

```
package ec.edu.espe.answers.model;

/*
 *
 * @author Leonel Mantuano
 */
public class A { //0.5

    ➤ name 0.5/0.5
    ➤ attributes 0/0.2
    ➤ constructor 0/0.2
    ➤ setters & getters 0/0.1
```

B ->

```

package ec.edu.espe.answers.model;

]
 /**
 *
 * @author Leonel Mantuano
 */
public class B { //0.5

}

```

- name 0.5/0.5
- attribute 0/0.5

C ->

```

package ec.edu.espe.answers.model;

/**
 *
 * @author Leonel Mantuano
 */
public class C {

}

```

- extends 0/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

D ->

- extends 0/0.4
- constructor 0/0.4
- setters & getters 0/0.2

E ->

```

package ec.edu.espe.answers.model;

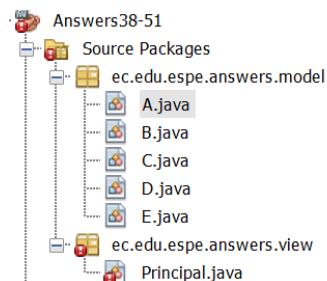
]
 /**
 *
 * @author Leonle Mantuano
 */
public class E { //0.8

}

```

- name 0.8/0.8
- toString 0/0.2

F ->

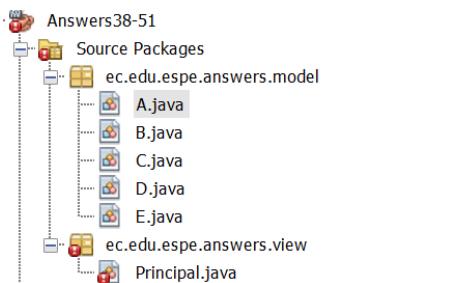


- name 0/0.8
- toString 0/0.2

G ->

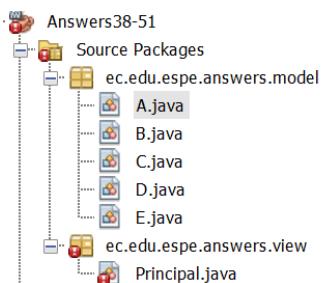
- implements 0/0.5
- method m() 0/0.5

H ->



➤ interface and name 0/1.0  
 ➤ method m 0/1.0

J ->



➤ name 0/0.8  
 ➤ toString 0/0.2

main ->

➤ A a 0/0.4  
 ➤ ArrayList<B> bs 0/0.4  
 ➤ C[ ] cs = new C[3] 0/0.4  
 ➤ D[ ] ds = new D[4] 0/0.4  
 ➤ println() 0/0.4

29 MORALES CAICEDO ANTHONY JAVIER  
 Inspector: Sebastian Palacios Grade 2,6/10--> 3.90/15  
 Q38-51

A ->

➤ name 0.5/0.5  
 ➤ attributes 0/0.2  
 ➤ constructor 0/0.2  
 ➤ setters & getters 0/0.1

B ->

➤ name 0.5/0.5  
 ➤ attribute 0/0.5

C ->

➤ extends 0/0.5  
 ➤ attribute 0/0.2  
 ➤ constructor 0/0.2  
 ➤ setters & getters 0/0.1

D ->

➤ extends 0/0.4  
 ➤ constructor 0/0.4

```

    > setters & getters      0/0.2
E ->
    > name          0/0.8
    > toString       0/0.2

E->
    > name          0.8/0.8
    > toString       0/0.2

F ->
    > name          0.8/0.8
    > toString       0/0.2

G ->
    > Implements    0/0.5
    > method m()    0/0.5

H ->
    > interface and name 0/1.0
    > method m         0/1.0

J ->
    > name          0/0.8
    > toString       0/0.2

main ->
    > A a            0/0.4
    > ArrayList<B> bs   0/0.4
    > C[ ] cs = new C[3] 0/0.4
    > D[ ] ds = new D[4] 0/0.4
    > println()        0/0.4

```

30 PALACIOS CANDO DIEGO SEBASTIAN

Inspector: Javier Paucar

Q38-51 0

31 PAUCAR LEMA ALEX JAVIER Total: 5.8/10 -> 8.7/15

Inspector : Quinga Leandro

Q38-51

```

A ->
    > name          0.5/0.5
    > attributes     0/0.2
    > constructor    0/0.2
    > setters & getters 0/0.1

B ->
    > name          0.5/0.5
    > attribute      0/0.5

C ->
    > extends        0.5/0.5
    > attribute      0/0.2

```

➤ constructor 0/0.2  
➤ setters & getters 0/0.1

D ->  
➤ extends 0.4/0.4  
➤ constructor /0.4  
➤ setters & getters /0.2

E ->  
name 0.8/0.8  
toString 0/0.2

F ->  
➤ name 0.8/0.8  
➤ toString /0.2

G ->  
➤ implements 0.5/0.5  
➤ attribute /0.2

H ->  
➤ interface and name 1/1.0  
➤ method m /1.0

J ->  
➤ name 0.8/0.8  
➤ toString 0/0.2

main ->  
➤ A a 0/0.4  
➤ ArrayList<B> bs 0/0.4  
➤ C[ ] cs = new C[3] 0/0.4  
➤ D[ ] ds = new D[4] 0/0.4  
➤ println() 0/0.4

32 QUINGA GUAYASAMIN LEANDRO ALEXANDER Total: 6,2/10 -----> 9.3/15  
inspector: Alexander Ruano  
Q38-51

A ->  
➤ name 0.5/0.5  
➤ attributes 0/0.2  
➤ constructor 0/0.2  
➤ setters & getters 0/0.1

B ->  
➤ name 0.5/0.5

```

    ➤ attribute      /0.5
C ->
    ➤ extends        0.5/0.5
    ➤ attribute      0/0.2
    ➤ constructor    0/0.2
    ➤ setters & getters 0/0.1

D ->
    ➤ extends        0.4/0.4
    ➤ constructor    0/0.4
    ➤ setters & getters 0/0.2

E ->
    ➤ name          0.8/0.8
    ➤ toString       0/0.2

F ->
    ➤ name          0.8/0.8
    ➤ toString       /0.2

G ->
    ➤ implements    0.5/0.5
    ➤ method m()    /0.5

H ->
    ➤ interface and name 1/1.0
    ➤ method m        /1.0

J ->
    ➤ name          0.8/0.8
    ➤ toString       0/0.2

main ->
    ➤ A a           0.4/0.4
    ➤ ArrayList<B> bs   0/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println()      0/0.4

```

33 RUANO PONCE ALEXANDER JAVIER Total:5.8/10 ->8.7/15

Inspector :Paul Saltos

Q38-51

```

A ->
    ➤ name          0.5/0.5
    ➤ attributes    0/0.2
    ➤ constructor   0/0.2
    ➤ setters & getters 0/0.1

```

```

 1 /*
 2  * Click http://nbhost/SystemFilesystem/Templates/Licenses/license-default.txt to change this license
 3  * Click http://nbhost/SystemFilesystem/Templates/Classes/Class.java to edit this template
 4  */
 5 package ec.edu.espe.model;
 6
 7 /**
 8  *
 9  * @author Ruano
10 */
11 public class A {
12
13 }

```

B ->

- name 0.5/0.5
- attribute 0/0.5

C ->

- extends 0.5/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

D ->

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0/0.2

>

E ->

- |          |         |
|----------|---------|
| name     | 0.8/0.8 |
| toString | 0/0.2   |

F ->

- name 0.8/0.8
- toString 0/0.2

G ->

- implements 0.5/0.5
- method m() 0/0.5

H ->

- interface and name 1.0/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0/0.2

main ->

- A a 0/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

34 SALTOS TACO PAUL ALEXANDER  
Inspector: Sanchez Jose

TOTAL 6.2/10 9,3/15

Q38-51

A ->

- name 0.5/0.5
- attributes 02./0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

B ->

- name 0.5/0.5
- attribute /0.5

C ->

- extends 0.5/0.5
- attribute /0.2
- constructor /0.2
- setters & getters /0.1

D ->

- extends 0.4/0.4
- constructor /0.4
- setters & getters /0.2

E ->

- name 0.8/0.8
- toString /0.2

F ->

- name 0.8/0.8
- toString /0.2

G ->

- implements 0.5/0.5
- method m() 0/0.5

H ->

- interface and name 1.0/1.0
- method m /1.0

J ->

- name 0.8/0.8
- toString 0/0.2

main ->

- A a 0.4/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

35 SANCHEZ MISHQUERO JOSE FRANCISCO  
 inspector: Alan Shuguli  
 Q38-51

TOTAL.7..2-10 10.8/15

A ->

```

1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * 
7  * @author Sanchez Jose
8  */
9 public abstract class A {
10     private ArrayList<A> as = new ArrayList<()>; //0.5
11
12     private A a1;
13     private A a2;
14
15     /**
16      * @return the as
17     */
18     public ArrayList<A> getAs() { //0.2
19         return as;
20     }
21
22     /**
23      * @param as the as to set
24      */
25     public void setAs(ArrayList<A> as) { //0.1
26         this.as = as;
27     }
28
29     /**
30      * @return the a1
31     */
32     public A getA1() {
33         return a1;
34     }
35
36     /**
37      * @param a1 the a1 to set
38     */
39     public void setA1(A a1) {
40         this.a1 = a1;
41     }
42
43     /**
44      * @return the a2
45     */
46     public A getA2() {
47         return a2;
48     }
49
50     /**
51      * @param a2 the a2 to set
52     */
53     public void setA2(A a2) {
54         this.a2 = a2;
55     }
56
57     /**
58      * @return the es
59     */
60     public ArrayList<A> getEs() {
61         return es;
62     }
63
64     /**
65      * @param es the es to set
66     */
67     public void setEs(ArrayList<A> es) {
68         this.es = es;
69     }
70 }

```

- name 0.5/0.5
- attributes 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

B ->

- name 0.5/0.5
- attribute /0.5

C ->

```

1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * 
7  * @author Sanchez Jose
8  */
9 public class C extends A { //0.5
10     private ArrayList<E> es = new ArrayList<()>; //0.2
11
12     public C() {
13     }
14
15     @Override
16     public String toString() {
17         return "C{" + "es=" + getEs() + '}';
18     }
19
20     /**
21      * @return the es
22     */
23     public ArrayList<E> getEs() {
24         return es;
25     }
26
27     /**
28      * @param es the es to set
29     */
30     public void setEs(ArrayList<E> es) {
31         this.es = es;
32     }
33
34 }

```

- extends 0.5/0.5

- attribute 0.2/0.2
- constructor 0.2/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.4/0.4
- constructor 0.4/0.4
- setters & getters 0/0.2

E ->

- name 0.8/0.8
- toString 0.2/0.2

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->

- implements 0.5/0.5
- method m() 0/0.5

H ->

- interface and name 1.0/1.0
- method m 0/1.0

H ->

- interface and name 1/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0.2/0.2

main ->

- A a 0.4/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

36 SHUGULI REINOSO ALAN JESITH Total 4/10 6/15  
Inspector: Jontahan Simbaña

```

    /*
     * Click nbfs://nbhost/SystemFileSystem
     * Click nbfs://nbhost/SystemFileSystem
     */
package ec.edu.espe.Exam.model;

    /*
     *
     * @author DARK
     */
public class A { //0.5
}

```

A ->

- name 0.5/0.5
- attributes 0/0.2

➤ constructor 0/0.2  
➤ setters & getters 0/0.1

B ->

➤ name 0.5/0.5  
➤ attribute 0/0.5

```
[-] /*  
 *  
 * @author DARK  
 */  
public class C { //0  
}
```

C ->

➤ extends 0.2/0.5  
➤ attribute 0/0.2  
➤ constructor 0/0.2  
➤ setters & getters 0/0.1

D ->

➤ Name 0.2/0.4  
➤ Attributes 0.0/0.4  
➤ Setters & getters 0.0/0.2  
Total 0.0/1

```
[-] /*  
 * @author DARK  
 */  
public class D { //0.8 //0  
}
```

E ->

name 0.8/0.8  
toString /0.2

F ->

➤ name 0.8/0.8  
➤ toString 0/0.2

G ->

➤ implements 0/0.5  
➤ method m() 0/0.5

H ->

interface and name 1.0/1.0  
➤ method m 0/1.0

```
[-] /*  
 * @author DARK  
 */  
public class J { //0.8 //0  
}
```

J ->

```

    ➤ name          0.8/0.8
    ➤ toString      0/0.2

main ->
    ➤ A a           0/0.4
    ➤ ArrayList<B> bs   0/0.4
    ➤ C[ ] cs = new C[3] 0/0.4
    ➤ D[ ] ds = new D[4] 0/0.4
    ➤ println()      0/0.4

```

37 SIMBAÑA SIMBAÑA JONATHAN GUSTAVO 5/10 -> 7.5/15

Inspector: Andrea Tapia

```

1 package ec.edu.espe.exam.model;
2
3
4 /**
5 *
6 * @author Simbaña J
7 */
8 public class A { //0.5
9
10 }

```

A ->

```

    ➤ name          0.5/0.5
    ➤ attributes     /0.2
    ➤ constructor     /0.2
    ➤ setters & getters /0.1

```

```
package ec.edu.espe.exam.model;
```

```

/**
 *
 * @author Simbaña J
 */
public class J { //0.8
}

```

J ->

```

    ➤ name          0.8/0.8
    ➤ toString      /0.2

```

---

```
package ec.edu.espe.exam.model;
```

```

/**
 *
 * @author Simbaña J
 */
public class E {
}

```

E ->

```

    ➤ name          0.8 /0.8
    ➤ toString      /0.2

```

```
package ec.edu.espe.exam.model;
```

```
/*
 *
 * @author Simbaña J
 */
public class C {
```

```
}
```

C ->

- extends 0.2/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

```
/*
 *
 * @author Simbaña J
 */
public class D {
```

```
}
```

D ->

- extends 0.2/0.4
- constructor 0/0.4
- setters & getters 0/0.2

```
/*
 * @author Simbaña J
 */
public class G {
    public J m(){ //0.5
        return new J();
    }
}
```

G ->

- implements 0.2/0.5
- method m() 0.5/0.5

```
/*
 * @author Simbaña J
 */
public class B {
```

```
}
```

B ->

- name 0.5/0.5

```

    ➤ attribute          0/0.5
    [
      * @author Simbaña J
      */
    public class H { //1.00

}

H->
    ➤ interface and name  0.5/1.0
    ➤ method m            0/1.0

public class Exam {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
    }

}

I
main ->
    ➤ A a                0/0.4
    ➤ ArrayList<B> bs    0/0.4
    ➤ C[ ] cs = new C[3]  0/0.4
    ➤ D[ ] ds = new D[4]  0/0.4
    ➤ println()           0/0.4

    [
      * @author Simbaña J
      */
    public class F { //0.8

}


```

F ->

- name 0.8/0.8
- toString /0.2

```

public abstract class A {
    private ArrayList<A> as = new ArrayList<>();

    @Override
    public String toString() {
        return "A{" + "as=" + as + '}';
    }

    public A() {
    }

    /**
     * @return the as
     */
    public ArrayList<A> getAs() {
        return as;
    }

    /**
     * @param as the as to set
     */
    public void setAs(ArrayList<A> as) {
        this.as = as;
    }
}

```

A ->

➤ name	0.5/0.5
➤ attributes	0.2/0.2
➤ constructor	0.2/0.2
➤ setters & getters	0.1/0.1
Total	1/1

B ->

```

public class B {
    private ArrayList<H> h = new ArrayList<>();

    public B() {
    }

    @Override
    public String toString() {
        return "B{" + "h=" + h + '}';
    }

    /**
     * @return the h
     */
    public ArrayList<H> getH() {
        return h;
    }
}

```

➤ name	0.5/0.5
➤ attribute	0.3/0.5
total	0.8/1

C ->

```

import java.util.ArrayList;

/**
 * 
 * @author Andrea Tapia
 */
public class C extends A {
    private ArrayList<E> e = new ArrayList<E>();

    public C() {
    }

    @Override
    public String toString() {
        return "C{" + "e=" + e + '}';
    }

    /**
     * @return the e
     */
    public ArrayList<E> getE() {
        return e;
    }

    /**
     * @param e the e to set
     */
    public void setE(ArrayList<E> e) {
        this.e = e;
    }
}

```

➤ name	0.5/0.5
➤ attributes	0.2/0.2
➤ constructor	0.2/0.2
➤ setters & getters	0.1/0.1
Total	1/1

#### D ->

```

public class D {
    private ArrayList<F> f = new ArrayList<F>();
    private ArrayList<E> e = new ArrayList<E>();

    @Override
    public String toString() {
        return "D{" + "f=" + f + ", e=" + e + '}';
    }

    public D() {
    }

    /**
     * @return the f
     */
    public ArrayList<F> getF() {
        return f;
    }
}

```

➤ Name	0.4/0.4
➤ Attributes	0.2/0.4
➤ Setters & getters	0.2/0.2
Total	0.8/1

#### E ->

```

public class E {
    public E() {
    }

    @Override
    public String toString() {
        return "E{" + '}';
    }
}

> name          0.8/0.8
> to String     0.2/0.2
Total           1/1

```

F ->

```

public class F {
    @Override
    public String toString() {
        return "F{" + '}';
    }

    public F() {
    }
}

```

```

> name          0.8/0.8
> to String     0.2/0.2
Total           1/1

```

G ->

```

public class G {
    public G() {
    }

    @Override
    public String toString() {
        return "G{" + '}';
    }
}

> implements    0.2/0.5

```

```

    ➤ method m()          0/0.5
      total              0.2/1
H ->
  public class H {
  }

    ➤ interface and name 1.0/1.0
    ➤ method m           0/1.0
      Total             1/1
J ->
  public class J {
    public J() {
    }

    @Override
    public String toString() {
      return "J{" + '}';
    }
  }

    ➤ name            0.8/0.8
    ➤ to String        0.2/0.2
      Total           1/1
main ->
  public class Exam {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
      // TODO code application logic here

      System.out.println("-----");
      System.out.println("Andrea Tapia POO 7490");
      System.out.println("-----");
    }
  }

    ➤ A a            /0.4
    ➤ ArrayList<B> bs /0.4
    ➤ C[ ] cs = new C[3] /0.4
    ➤ D[ ] ds = new D[4] /0.4
    ➤ println()       0.4/0.4
      Total           0.4/2

```

Q38-51

A -&gt;

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

B -&gt;

- name 0.5/0.5
- attribute 0/0.5

C -&gt;

- extends 0/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

D -&gt;

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0/0.2

E -&gt;

- name 0.8/0.8
- toString 0/0.2

F -&gt;

- name 0.8/0.8
- toString 0/0.2

G -&gt;

- implements 0.5/0.5
- method m() 0/0.5

H -&gt;

- interface and name 1.0/1.0
- method m 0/1.0

J -&gt;

- name 0.8/0.8
- toString 0/0.2

main -&gt;

- A a 0/0.4
- ArrayList<B> bs 0/0.4

```
> C[] cs = new C[3]      0/0.4
> D[] ds = new D[4]      0/0.4
> println()              0/0.4
```

#### CLASS A:

```
1
2
3  [-] /**
4   *
5   * @author Sebas
6   */
7  public class A { //0.5
8
9  }
```

#### CLASS J:

```
2
3  [-] /**
4   *
5   * @author Sebas
6   */
7  public class J { //0.8
8
9  }
```

#### CLASS E:

```
3
4  [-] /**
5   *
6   * @author Sebas
7   */
8  public class E { //0.8
9
10 }
```

#### CLASS F:

```
2
3  [-] /**
4   *
5   * @author Sebas
6   */
7  public class F { //0.8
8
9  }
```

#### CLASS C:

```
3   */*
4  *
5  * @author Sebas
6  */
7  public class C { //0
8
9  }
10
```

#### CLASS D:

```
3   */*
4  *
5  * @author Sebas
6  */
7  public class D extends A{ //0.4
8
9  }
10
```

#### CLASS H:

```
3   */*
4  *
5  * @author Sebas
6  */
7  public interface H { //1.0
8
9  }
10
```

#### CLASS G:

```
3   */*
4  *
5  * @author Sebas
6  */
7  public class G implements H{ //0.5
8
9  }
10
```

#### CLASS B:

```

2
3     /**
4      *
5      * @author Sebas
6      */
7  public class B {    //0.5
8
9 }
10

```

### MAIN:

```

4 /**
5  *
6  * @author Sebas
7  */
8 public class Question38FromUMLtoCode { //0
9
10 /**
11  * @param args the command line arguments
12  */
13 public static void main(String[] args) {
14     // TODO code application logic here
15 }
16
17 }
18

```

40 TECA TELLO CAMILA MILENA

Inspector: Melanie Terán

Grade: 5.9/10 → 8.85/15

A ->

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

```

2 package ec.edu.espe.question.model;
3
4 /**
5  *
6  * @author Camila
7  */
8 public class A { //0.5
9
10 }
11

```

B ->

- name 0.5/0.5
- attribute 0.5/0.5

C ->

- extends 0/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0/0.1

```
2 package ec.edu.espe.question.model;
3
4 /**
5 *
6 * @author Camila
7 */
8 public class C { //0
9
10 }
11
```

D ->

- extends 0/0.4
- constructor 0/0.4
- setters & getters 0/0.2

E ->

```
2 package ec.edu.espe.question.model;
3
4 /**
5 *
6 * @author Camila
7 */
8 public class E { //0.8
9
10 }
11
```

- name 0.8/0.8
- toString 0/0.2

F ->

```
2 package ec.edu.espe.question.model;
3
4 /**
5 *
6 * @author Camila
7 */
8 public class F { //0.8
9
10 }
11
```

- name 0.8/0.8
- toString 0/0.2

G ->

- implements 0.5/0.5
- method m() 0.5/0.5

H ->

- interface and name 1.0/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0/0.2

main ->

- A a 0/0.4
- ArrayList<B> bs 0/0.4

➤ C[ ] cs = new C[3] 0/0.4  
➤ D[ ] ds = new D[4] 0/0.4  
➤ println() 0/0.4

#### 41 TERAN FLORES MELANIE ELIZABETH

Inspector: Salma Villegas

Q38-51

A -> 0.7

➤ name 0.5/0.5  
➤ attributes 0.2/0.2  
➤ constructor 0/0  
➤ setters & getters 0/0

```
1 package ec.edu.espe.uml.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * 
7  * @author Melanie
8 */
9 public class A {      //0.5
10    ArrayList<A> as = new ArrayList<>(); //0.2
11    ArrayList<B> bs = new ArrayList<>();
12 }
13
14 //Missing the constructor, setter and getter
15
```

B -> 0.5

➤ name 0.5/0.5  
➤ attribute 0/0.5

```
1 package ec.edu.espe.uml.models;
2
3 /**
4  * 
5  * @author Melanie
6 */
7 public class B {      //0.5
8
9 }
10
```

C -> 0.7

➤ extends 0.5/0.5  
➤ attribute 0.2/0.2  
➤ constructor 0/0.2  
➤ setters & getters 0/0.1

```

1 package ec.edu.espe.uml.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * 
7  * @author Melanie
8  */
9 public class C extends A{ //0.5
10     ArrayList<E> es; //0.2
11 }
12

```

D -> 0.4

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0/0.2

```

1 package ec.edu.espe.uml.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * 
7  * @author Melanie
8  */
9 public class D extends A{ //0.4
10     ArrayList<F> fs;
11 }
12
13

```

E -> 0.8

- |          |         |
|----------|---------|
| name     | 0.8/0.8 |
| toString | 0/0.2   |

```

1 package ec.edu.espe.uml.model;
2
3 /**
4  * 
5  * @author Melanie
6  */
7 public class E { //0.8
8
9     //Missing the toString
10
11 }
12

```

F -> 0.8

- |            |         |
|------------|---------|
| name       | 0.8/0.8 |
| ➤ toString | 0/0.2   |

```

1 package ec.edu.espe.uml.model;
2
3 /**
4  * 
5  * @author Melanie
6  */
7 public class F { //0.8
8
9     //Missing toString
10
11 }
12

```

G -> 1.00

- implements 0.5/0.5
- method m() 0.5/0.5

```

1 package ec.edu.espe.uml.models;
2
3 /**
4 * @author Melanie
5 */
6 public class G implements H { //0.5
7     @Override
8     public void m(J j){ //0.5
9         j;
10    }
11 }
12
13

```

H -> 1.0

- interface and name 1.0/1.0
- method m 0/1.0

J -> 0.8

- name 0.8/0.8
- toString 0/0

```

1 package ec.edu.espe.uml.model;
2
3 /**
4 * @author Melanie
5 */
6 public class J { //0.8
7
8 }
9
10
11 //Missing toString

```

main -> 1.00

- A a 0.4/0.4
- ArrayList<B> bs 0.4/0.4
- C[ ] cs = new C[3] /0.4
- D[ ] ds = new D[4] /0.4
- println() 0.2/0.4

```

1 package ec.edu.espe.uml.view;
2
3 import ec.edu.espe.uml.model.A;
4 import ec.edu.espe.uml.model.B;
5 import ec.edu.espe.uml.model.C;
6 import ec.edu.espe.uml.model.E;
7 import ec.edu.espe.uml.model.F;
8 import ec.edu.espe.uml.model.J;
9 import java.util.ArrayList;
10
11 /**
12 * @author Melanie
13 */
14 public class main {
15
16     public static void main(String[] args) {
17         J j;
18         E e;
19         F f;
20         C c;
21         A a; //0.4
22         ArrayList<B> as; //0.4
23         ArrayList<B> bs; //0.4
24
25         System.out.println("Exam"); //0.2
26     }
27 }
28

```

**Total: 7.5/10**

**11.25/15**

42 VILLEGAS ESTRELLA SALMA ABIGAIL

Inspector: Joel Zeas

Q38-51

A ->

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

B ->

- name 0.5/0.5
- attribute 0/0.5

C ->

- extends 0.5/0.5
- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

D ->

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0.2/0.2

E ->

- name 0.8/0.8
- toString 0/0.2

F ->

- name 0.8/0.8
- toString 0/0.2

G ->

- implements 0.5/0.5
- method m() 0/0.5

H ->

- interface and name 0/1.0
- method m 0/1.0

J ->

- name 0.8/0.8
- toString 0.2/0.2

main ->

- A a 0.4/0.4
- ArrayList<B> bs 0/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0.4/0.4

**Total: 6.20**

**9.30/15**

43 ZEAS CLAVIJO JOEL ALEXANDER  
Inspector: Anderson Almache

A ->

- name 0.5/0.5
- attributes 0/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

```
1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6 *
7 * @author Joel Zeas
8 */
9 @public class A {
10     private ArrayList<A> as; //0.5
11
12
13
14     /**
15      * @return the as
16      */
17     public ArrayList<A> getAs() { //0.1
18         return as;
19     }
20
21     /**
22      * @param as the as to set
23     */
```

B ->

- name 0.5/0.5
- attribute 0/0.5

```
1 package ec.edu.espe.question.model;
2
3 /**
4 *
5 * @author Joel Zeas
6 */
7 @public class B { //0.5
8
9 }
10
```

C ->

- extends 0.5/0.5

- attribute 0/0.2
- constructor 0/0.2
- setters & getters 0.1/0.1

```

1 package ec.edu.espe.question.model;
2
3 import java.util.ArrayList;
4
5 /**
6  * @author Joel Zeas
7 */
8
9 public class C extends A{ //0.5
10
11     private ArrayList<E> es; //0.2
12
13     //0.1
14 /**
15  * @return the es
16 */
17 public ArrayList<E> getEs() {
18     return es;
19 }

```

D ->

- extends 0.4/0.4
- constructor 0/0.4
- setters & getters 0.2/0.2

E ->

name	0.8/0.8
toString	0/0.2

```

1 package ec.edu.espe.question.model;
2
3 /**
4  *
5  * @author Joel Zeas
6 */
7
8 public class E { //0.8
9
10

```

F ->

- name 0.8/0.8
- toString 0.2/0.2

G ->

- implements 0.5/0.5
- method m() 0.1/0.5

```
1 package ec.edu.espe.question.model;
2
3 /**
4 * @author Joel Zeas
5 */
6 public class G implements H{ //0.5
7     public J m(){ //0.5
8         return new J();
9     }
10}
11
12
```

H ->

- interface and name /1.0
- method m /1.0

```
1 package ec.edu.espe.question.model;
2
3 /**
4 * @author Joel Zeas
5 */
6 public class H {
7
8
9 }
```

J ->

- name 0.8/0.8
- toString 0.2/0.2

```
1 package ec.edu.espe.question.model;
2
3 /**
4 * @author Joel Zeas
5 */
6 public class J { //0.8
7
8
9     @Override //0.2
10    public String toString() {
11        return "J{" + '}';
12    }
13
14 }
15
```

main ->

- A a 0.4/0.4
- ArrayList<B> bs 0.4/0.4
- C[ ] cs = new C[3] 0/0.4
- D[ ] ds = new D[4] 0/0.4
- println() 0/0.4

```
1 package ec.edu.espe.question.view;
2
3 /**
4 * @author Joel Zeas
5 */
6
7 public class Main {
8     public static void main(String[] args) {
9         J j;
10        E e;
11        F f;
12        C c;
13        A a;           //0.4
14    }
15 }
16
```

Total: 6.4/10 9.6/15