

38 TAPIA ALBAN ANDREA JULIANNA  
inspector: Sebastian Tayo

Total: 8.2/10 -> 12.3/15

```
public abstract class A {  
    private ArrayList<A> aa = new ArrayList<>();  
  
    @Override  
    public String toString() {  
        return "A[" + "aa=" + aa + " ]";  
    }  
  
    public A() {  
    }  
  
    /**  
     * Return the aa  
     */  
    public ArrayList<A> getAa() {  
        return aa;  
    }  
}
```

```
@Override  
public String toString() {  
    return "A[" + "aa=" + aa + " ]";  
}  
  
public A() {  
}  
  
/**  
 * Return the aa  
 */  
public ArrayList<A> getAa() {  
    return aa;  
}  
  
/**  
 * Return aa the aa to set  
 */  
public void setAa(ArrayList<A> aa) {  
    this.aa = aa;  
}
```

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;  
    }  
  
    /**  
     * Return h the h to set  
     */  
    public void setH(ArrayList<H> h) {  
        this.h = h;  
    }  
}
```

```

import java.util.ArrayList;

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

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

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

```

> 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[" + "]";
    }
}

```

> 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 {
```

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