```
Class A
package ec.edu.espe.conjunta.model;
import java.util.ArrayList;
import java.util.List;
@author Luis Haro
public class A {
  private List<A> as = new ArrayList<>();
  public A() {
    System.out.println("A::A()");
  }
  public void addA(A a) {
    as.add(a);
  }
  public List<A> getAs() {
    return as;
  }
  public void setAs(List<A> as) {
    this.as = as;
  }
  @Override
  public String toString() {
```

```
return "A{" + "as=" + as + '}';
  }
}
Class B
package ec.edu.espe.conjunta.model;
import java.util.ArrayList;
import java.util.List;
@author Luis Haro
public class B extends A {
  private final List<H> hs = new ArrayList<>();
  public B() {
    System.out.println("B::B()");
    hs.add(new G(new J()));
  }
  @Override
  public String toString() {
    return "B{" + '}';
  }
}
```

Class C

```
package ec.edu.espe.conjunta.model;
import java.util.ArrayList;
import java.util.List;
 * @author Luis Haro
public class C extends A {
  private List<E> es = new ArrayList<>();
  public C() {
    System.out.println("C::C()");
    es.add(new E());
  }
  public List<E> getEs() {
    return es;
  }
  public void setEs(List<E> es) {
    this.es = es;
  }
  @Override
  public String toString() {
    return "C{" + '}';
  }
}
```

```
Class D
package ec.edu.espe.conjunta.model;
import java.util.ArrayList;
import java.util.List;
* @author Luis Haro
public class D extends A {
  private List<F> fs = new ArrayList<>();
  private E es[] = new E[5];
  public List<F> getFs() {
    return fs;
  public void setFs(List<F> fs) {
    this.fs = fs;
  public E[] getEs() {
    return es;
  }
  public void setEs(E[] es) {
    this.es = es;
  }
  public D() {
```

```
System.out.println("D::D()");
    fs.add(new F());
    es[0] = new E();
    es[1] = new E();
    es[2] = new E();
    es[3] = new E();
    es[4] = new E();
  }
}
Class E
package ec.edu.espe.conjunta.model;
* @author Luis Haro
public class E {
  public E() {
    System.out.println("E::E()");
  }
  @Override
  public String toString() {
    return "E{" + '}';
  }
}
Class F
package ec.edu.espe.conjunta.model;
```

```
*@author Luis Haro
public class F {
  public F() {
    System.out.println("F::F()");
  }
  @Override
  public String toString() {
    return "F{" + '}';
  }
}
Class G
package ec.edu.espe.conjunta.model;
 * @author Luis Haro
public class G implements H {
  public G(J j) {
    System.out.println("G::G(" + j + ")");
  }
  public G() {
  }
```

```
@Override
  public String toString() {
    return "G{" + '}';
  }
}
Class H
package ec.edu.espe.conjunta.model;
* @author Luis Haro
public interface H {
}
Class J
package ec.edu.espe.conjunta.model;
 * @author Luis Haro
*/
public class J {
  public J() {
    System.out.println("J::J()");
  }
  @Override
```

```
public String toString() {
    return "J{" + '}';
  }
}
Main
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package ec.edu.espe.conjunta.view;
import ec.edu.espe.conjunta.model.*;
import java.util.ArrayList;
import java.util.List;
* @author Luis Haro
public class ConjuntaSystem {
  public static void main(String[] args) {
    A a = new A();
    Bb = new B();
    C c = new C();
    Dd = new D();
    Ee = new E();
    F f = new F();
    Gg = new G();
    J j = new J();
```

```
}
}
  A::A()
  A::A()
  B::B()
  J::J()
  G::G(J{})
  A::A()
  C::C()
  E::E()
  A::A()
  D::D()
  F::F()
  E::E()
  E::E()
  E::E()
  E::E()
  E::E()
  E::E()
  F::F()
  J::J()
```

System.out.println("This is an object " + a.toString());

This is an object A{as=[]}