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1 R12.1

1. Gather requirements

2. Use CRC cards to find classes, responsibilities, and collaborators

3. Use UML diagrams to record class relationships.

4. Use javadoc to document method behavior.

2 R12.4

It is important to identify the object that is responsible is so you can see if the method need more methods or other classes it carry out the method.
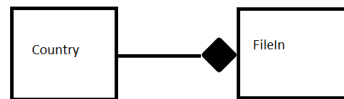
3 R12.5

A. aggregation

B. inheritance

C. inheritance

D. neither

E. aggregation

F. inheritance

G. neither

H. neither

4 R12.11

Country	
population area population density	

FileIn	
Read find the largest area find the largest population find the largest population density	

4.1 UML

4.2 Javadoc

Class Country

java.lang.Object
    Country

```
public class Country
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description
Country(int population, double area, double populationDensity)

Method Summary

All Methods   Instance Methods   Concrete Methods

Modifier and Type	Method and Description
double	**getArea**()
int	**getPopulation**()
double	**getPopulationDensity**()
void	**setArea**(double area)
void	**setPopulation**(int population)
void	**setPopulationDensity**()

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Country

```
public Country(int population,
               double area,
               double populationDensity)
```

Method Detail

setPopulation

public void setPopulation(int population)

setArea

public void setArea(double area)

setPopulationDensity

public void setPopulationDensity()

getPopulation

public int getPopulation()

getArea

public double getArea()

getPopulationDensity

public double getPopulationDensity()

Class FileIn

java.lang.Object
    FileIn

```
public class FileIn
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description
FileIn()

Method Summary

All Methods   **Instance Methods**   **Concrete Methods**

Modifier and Type	Method and Description
Country	**findMaxare**(java.util.ArrayList<Country> in)
Country	**findMaxpop**(java.util.ArrayList<Country> in)
Country	**findMaxpopdnec**(java.util.ArrayList<Country> in)
java.util.ArrayList<Country>	**getCountries**()
void	**in**(java.lang.String filename)
void	**setCountries**(java.util.ArrayList<Country> countries)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

FileIn

```
public FileIn()
```

Method Detail

findMaxpop

```
public Country findMaxpop(java.util.ArrayList<Country> in)
```

findMaxpopdnec

```
public Country findMaxpopdnec(java.util.ArrayList<Country> in)
```

findMaxare

```
public Country findMaxare(java.util.ArrayList<Country> in)
```

setCountries

```
public void setCountries(java.util.ArrayList<Country> countries)
```

in

```
public void in(java.lang.String filename)
```

getCountries

```
public java.util.ArrayList<Country> getCountries()
```