Bonnet Adrian & Owen Rougé

07/03/2019

# A. Diagramme d'héritage

### Document

private int numReg private String title

public Document public void setNumReg public void setTitle public int getNumReg public String getTitle

#### Revue

private int year private int month

public Revue public void setYear public void setMonth public String getYear public int getMonth

### Livre

private String author private int nbPages

public Livre public void setAuthor public void setNbPages public String getAuthor public int getNbPages

#### Roman

private int awar

public Roman public void setAward public int getAward

## Manuel

private int level

public Manuel
public void setLevel
public int getLevel

# B. Classes Document, Livre, Roman, Manuel et Revue

```
public Revue (int num, String tit, int yea, int mon)
{
    super(num, tit);
    this.year = yea;
    this.month = mon;
}

public String toString()
{
    return super(toString()) + "année " + year + ", mois" + month;
}
```

```
public Roman (int num, String tit, String aut, int nb, int awa)
{
    super(num, tit, aut, nb)
    this.award = awa;
}

public String toString()
{
    switch(this.award)
    {
        case 1 :
            return super(toString()) + ", prix Goncourt";
        case 2 :
            return super(toString()) + ", prix Medicis";
        case 3 :
            return super(toString()) + ", prix Interallie";
        default :
            return super(toString());
    }
}
```

# C. Classe Bibliothèque

```
public class Bibliotheque
    private int volume;
    private List<Document> stock;
    public Bibliotheque (int vol)
      this.volume = vol;
      this.stock = new ArrayList<Document>();
    }
    public Bool add(Document doc)
    {
      Bool ret = false;
      if(stock.size() < volume)</pre>
            stock.add(doc);
            ret = true;
      }
      return ret;
    }
```

```
07/03/2019
```

```
public void printFiles ()
     for (Document doc : stock)
System.out.println(doc.toString());
   public void printAuthors ()
     for (Document doc : stock) if (doc instanceof Livre)
     System.out.println((Livre)doc.toString());
}
  D. Méthode ajouterLivres()
public int addLivres (bookList)
   int occ = 0;
   this.add(doc);
     occ ++;
    return occ;
}
  E. Classe Livrothèque
public class Livrotheque
{
   private int volume;
   private List<Livre> stock;
   public Livrotheque (int vol)
     this.volume = vol;
```

this.stock = new ArrayList<Livre>();

```
public Bool add(Livre doc)
     Bool ret = false;
     if(stock.size() < volume)</pre>
          stock.add(doc);
          ret = true;
     return ret;
   public void printFiles ()
     for (Livre doc : stock)
System.out.println(doc.toString());
   public void printAuthors ()
     for (Livre doc : stock)
System.out.println(doc.getAuthor());
   public int addLivres (List<Livre> bookList)
     return bookList.size();
}
```