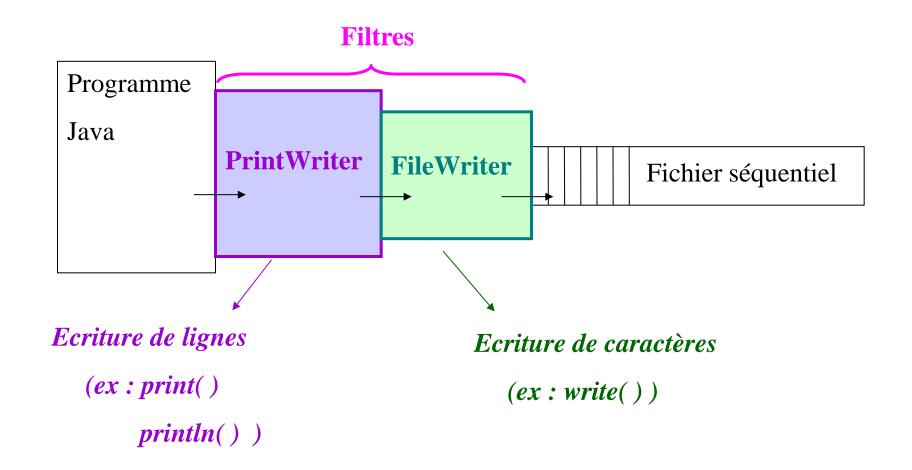


- 5.1. Ecriture/lecture de chaînes de caractères
 - Ecriture



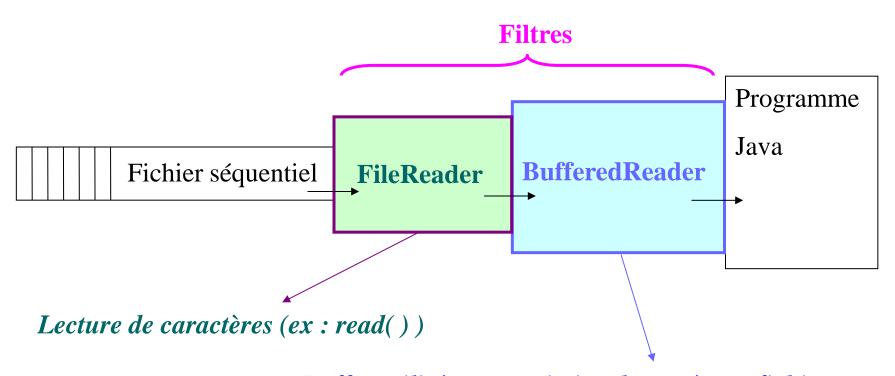
```
public class Vehicule
         {private String plaque, proprio;
         public Vehicule(String pla, String pro)
                  { plaque = pla; proprio = pro;}
         // gettors et settors
```

```
import java.io.*;
import javax.swing.*;
public class Programme
{ public static void main(String[] args)
                 Vehicule veh;
                 PrintWriter sortie = null;
```

```
Filtre: écriture plus aisée
try {
sortie = new PrintWriter (new FileWriter ("vehicule.txt", false));
         /*ouverture du fichier: écrase son contenu éventuel */
veh = new Vehicule("cv123","julot");
sortie.print(veh.getPlaque());
sortie.println(veh.getProprio())
veh = new Vehicule("di456","mario");
sortie.print(veh.getPlaque());
sortie.println(veh.getProprio());
sortie.close();
```

```
catch ( <u>IOException</u> e)
{JOptionPane.showMessageDialog(null,e.getMessage()); }
finally
 {if (sortie!= null)
         {try {sortie.close();}
          catch (IOException e) {...}
```

- 5.1. Ecriture/lecture de chaînes de caractères
 - Ecriture
 - Lecture



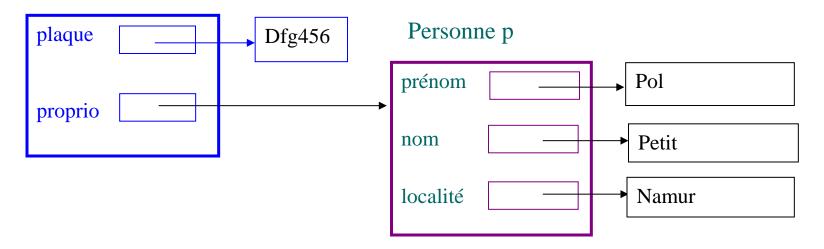
Buffer utilisé pour optimiser les accès au fichier

```
Filtre: optimise
                                             accès au disque
BufferedReader entree = null;
try {entree = new BufferedReader(new FileReader ("vehicule.txt"));
    String s;
    s = entree.readLine();
    while (s != null)
      { System.out.println (s);
      s = entree.readLine(); }
```

```
catch (IOException e)
    {JOptionPane.showMessageDialog(null,e.getMessage()); }
finally
{if (entree != null)
        {try {entree.close();}
         catch (IOException e) {...}
```

- 5.1. Ecriture/lecture de chaînes de caractères
- 5.2. Ecriture/lecture d'objets

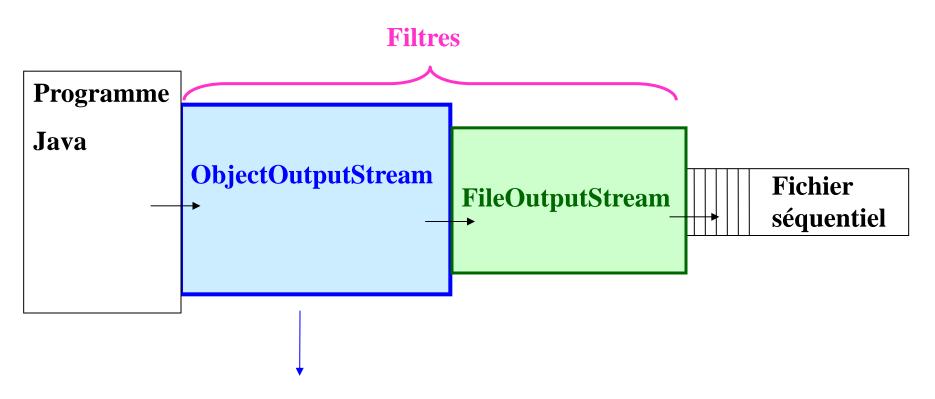
Vehicule v



```
import java.io.*;
public class Personne implements Serializable
{ private String prenom, nom, localite;
 public Personne(String p, String n, String l)
     \{prenom = p; nom = n; localite = l; \}
 public String toString( )
         {return "la personne " + prenom + " " + nom + "
          habitant à " + localite; } }
```

```
import java.io.*;
public class Vehicule implements Serializable
{ private String plaque;
 private Personne proprio;
 public Vehicule(String pla, Personne pro)
         { plaque = pla; proprio = pro;}
 public String toString( )
 {return "Le véhicule " + plaque + " appartient à " + proprio; }
```

- 5.1. Ecriture/lecture de chaînes de caractères
- 5.2. Ecriture/lecture d'objets
 - Ecriture

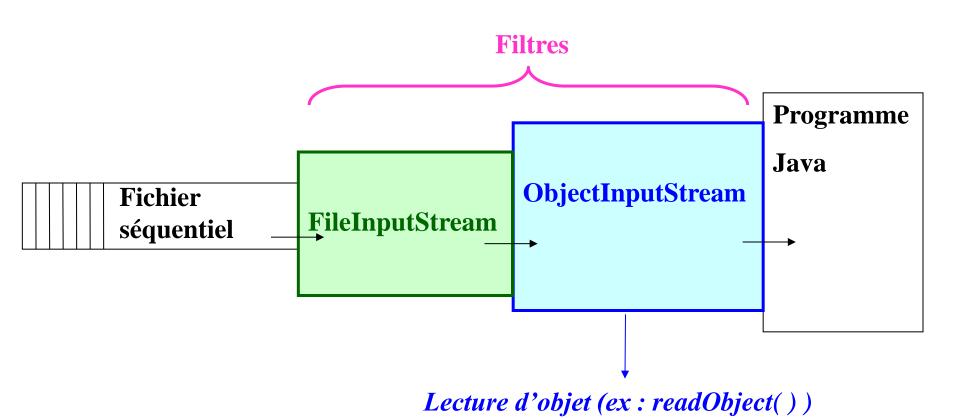


Ecriture d'objet (ex : writeObject())

```
Flux d'objets
public class Programme
{ public static void main(String[] args)
                                                        Flux de données
{ ObjectOutputStream sortie = null;
 try {sortie = new ObjectOutputStream(new FileOutputStream("vehic.txt"));
      sortie.writeObject(new Vehicule ("xw123",new
                               Personne("Marie","Leroy","Liege")));
       sortie.writeObject(new Vehicule ("df456",new
                                Personne("Pol","Dupond","Namur")));
       sortie.writeObject(new Vehicule ("rt789",new
                                Personne("Jules", "Claude", "Mons")));
```

```
catch ( <u>IOException</u> e)
{JOptionPane.showMessageDialog(null,e.getMessage()); }
finally
 {if (sortie != null)
         {try {sortie.close();}
          catch (IOException e) {...}
```

- 5.1. Ecriture/lecture de chaînes de caractères
- 5.2. Ecriture/lecture d'objets
 - Ecriture
 - Lecture



```
ObjectInputStream entree = null;
try {
 entree = new ObjectInputStream(new FileInputStream("vehic.txt"));
 Vehicule veh;
 veh = (<u>Vehicule</u>) entree.readObject();
                           /* attention au casting obligatoire */
 while (veh !=null)
     { System.out.println(veh);
      veh = (Vehicule) entree.readObject( ); }
```

```
catch (EOFException e)
     {System.out.println("Plus d'enregistrement"); }
catch (IOException e)
        JOptionPane.showMessageDialog(null,"erreur lecture
        fichier");}
catch (Exception e)
     { JOptionPane.showMessageDialog(null,"erreur autre que
        lecture fichier");}
finally
 {if (entree != null)
         {try {entree.close();}
          catch (IOException e) {...}
```