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Paire.java

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```
public class Paire {  
    private Object car;  
    private Paire cdr;  
  
    public Paire(Object valeur, Paire suivante) {  
        car = valeur;  
        cdr = suivante;  
    }  
  
    public Paire(Object valeur) {  
        this (valeur, null);  
    }  
  
    public Object car() {  
        return car;  
    }  
  
    public Paire cdr() {  
        return cdr;  
    }  
  
    public void setCar(Object v) {  
        car = v;  
    }  
  
    public void setCdr(Paire c) {  
        cdr = c;  
    }  
  
    public String toString() {  
        if(car == null)  
            return " ";  
  
        String s = car.toString();  
        Paire p = cdr;  
  
        while (p != null) {  
            s = s + " " + p.car;  
            p = p.cdr;  
        }  
        return s;  
    }  
  
    public Paire rechercher (Object v) {  
        Paire p = this;  
  
        while (p != null) {  
            if (p.car.equals (v))  
                return p;  
            p = p.cdr;  
        }  
        return null;  
    }  
}
```

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Liste.java

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```
public class Liste {  
    protected Paire premierElement;  
  
    public Liste () {  
        premierElement = null;  
    }  
  
    public Liste (Object v) {  
        this();  
        ajouter(v);  
    }  
  
    public void ajouter (Object v) {  
        premierElement = new Paire (v, premierElement);  
    }  
  
    public boolean rechercher (Object v) {  
        if (premierElement == null)  
            return false;  
        Paire p = premierElement.rechercher(v);  
        return p != null;  
    }  
  
    public String toString () {  
        if (premierElement == null)  
            return " ";  
        return premierElement.toString();  
    }  
}
```

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TestListe.java

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```
public class TestListe {  
    public static void main(String[] args) {  
        String commande = args[0];  
        Liste l = new Liste();  
        for (int i = 0; i < commande.length(); i++) {  
            char c = commande.charAt(i);  
            switch (c) {  
                case 'A':  
                    {  
                        i++;  
                        char cc = commande.charAt(i);  
  
                        System.out.println("Ajouter\" + cc + "\");  
                        l.ajouter(new Character(cc));  
                        break;  
                    }  
                case 'R':  
                    {  
                        i++;  
                        char cc = commande.charAt(i);  
  
                        System.out.print("Rechercher\" + cc + "\");  
                        System.out.println(l.rechercher(new Character(cc)));  
                        break;  
                    }  
                default :  
                    System.out.println(c + ": commande inconnue");  
                    break;  
            }  
            System.out.println(l);  
        }  
    }  
}
```

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ItListe.java

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```
public class ItListe extends Liste {
    private Paire position;

    public ItListe() {
        super();
        allerAuDebut();
    }

    public ItListe(Object v) {
        this();
        ajouter(v);
    }

    public void allerAuDebut() {
        position = premierElement;
    }

    public void avancer() {
        position = position.cdr();
    }

    public Object elementCourant() {
        return position.car();
    }

    public boolean finDeListe() {
        return position == null;
    }

    public void modifier(Object v) {
        position.setCar(v);
    }

    public boolean rechercher(Object v) {
        if (premierElement == null)
            return false;

        Paire p = premierElement.rechercher(v);

        if (p != null) {
            position = p;
            return true;
        }
        return false;
    }

    public String toString() {
        Paire p = premierElement;
        String s = "(";

        while (p != null) {
            if (p == position)
                s = s + "[" + p.car() + "]";
            else
                s = s + " " + p.car();
            p = p.cdr();
        }
        return s + ")";
    }
}
```

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ItListe.java

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TestItListe.java

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```

public class TestItListe {
    public static void main(String[] args) {
        String commande = args[0];
        ItListe l = new ItListe();
        for (int i = 0; i < commande.length(); i++) {
            char c = commande.charAt(i);
            switch (c) {
                case 'A':
                    {
                        i++;
                        char cc = commande.charAt(i);

                        System.out.println("Ajouter\" + cc + "\");
                        l.ajouter(new Character(cc));
                        break;
                    }
                case 'R':
                    {
                        i++;
                        char cc = commande.charAt(i);

                        System.out.print("Rechercher\" + cc + "\");
                        System.out.println(l.rechercher(new Character(cc)));
                        break;
                    }
                case 'D':
                    {
                        System.out.println("Aller au debut");
                        l.allerAuDebut();
                        break;
                    }
                case 'V':
                    {
                        System.out.println("Avancer");
                        l.avancer();
                        break;
                    }
                case 'M':
                    {
                        i++;
                        char cc = commande.charAt(i);

                        System.out.println("Modifier\" + cc + "\");
                        l.modifier(new Character(cc));
                        break;
                    }
                default :
                    System.out.println(c + ": commande inconnue");
                    break;
            }
            System.out.println(l);
        }
    }
}

```

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TestItListe.java

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```

}
}

```