

Exercice sur la Pile

<pre>interface Pile { boolean estVide(); void empiler(Object x); Object depiler(); }</pre>	<pre>class PileTab implements Pile { Object[] tab = new Object[100]; int n = 0; public boolean estVide() {return n == 0;} public void empiler(Object val) {tab[n++] = val;} public Object depiler() {return tab[--n];} }</pre>
<pre>class PPile{ public static void main(String[] args) { Pile unePile = new PileTab(); unePile.empiler("A"); unePile.empiler("B"); unePile.empiler(5); System.out.println(((PileTab) unePile).n); for (int i=0;i<((PileTab) unePile).n;i++) System.out.println(((PileTab) unePile).tab[i]); Object o; while (!unePile.estVide()){ o=unePile.depiler(); System.out.println(o); } } }</pre>	

Exemple sur les getters et les setters

```
class Employe {
    private int nSS;
    private String nom;
    private int age;

    public int getNSS(){return nSS;}
    public void setNSS(int n){ nSS=n;}

    // à compléter pour tester les autres attributs nom et age

}
```

```
public class TestEmploye{
    public static void main(String args[]){
        Employe e= new Employe();
        System.out.print(e.getNSS());
        e.setNSS(5);
        System.out.print(e.getNSS());

    }
}
```

Exercice de la classe Singleton

```
public class A
{
    private static A singleObject;
    private String a;
    public String getA(){return a;        }

    private A(String a){ this.a = a;}

    public static A getInstance(String a){
        if (singleObject == null){
            singleObject = new A(a);
        }
        return singleObject;
    }

}
```

```
public class TestA
{
    public static void main(String args[]){
        A a;
        a = A.getInstance("Signleton");
        System.out.println("This is the " + a.getA() );

        A b = A.getInstance("non singleton");
        System.out.println("This is the " +b.getA() );
    }
}
```