```java
1 package util;
2
3 import java.util.Arrays;
4
5 /**
6  * Permet de tester toutes les fonctions publiques de Pile...
7  *
8  * @author Sacha Bron
9  * @author Valentin Minder
10  * @date 13.11.2014
11  */
12 public class TestPile {
13
14     public static void main(String[] args) {
15
16         Pile pileTest = new Pile();
17         System.out.println("TEST: taille pile vide:" +
18   pileTest.getSize());
19         String s1 = "hello(1)";
20         String s2 = "world(2)";
21         String s3 = "my name is Bond (3)";
22         String s4 = "James Bond (4)";
23
24         try {
25             // crashe volontairement, catch!
26             System.out.println("Depile:" + pileTest.depile());
27             System.err.println("ERREUR : Pile devrait etre
28   vide !!");
29         } catch (EmptyStackException e) {
30             System.out.println("TEST : vide au demarrage");
31         }
32
33         System.out.println("TEST: empile/depile.");
34         System.out.println("Empile:" + pileTest.empile(s1));
35         System.out.println("Empile:" + pileTest.empile(s2));
36         System.out.println("Empile:" + pileTest.empile(s3));
37         System.out.println("Empile:" + pileTest.empile(s4));
38         System.out.println("TEST: taille pile plein:" +
39   pileTest.getSize());
40         System.out.println("Depile:" + pileTest.depile());
41         System.out.println("Depile:" + pileTest.depile());
42         System.out.println("Depile:" + pileTest.depile());
43         System.out.println("Depile:" + pileTest.depile());
44
```

```
43          try {
44              // crashe volontairement, catch!
45              System.out.println("Depile:" + pileTest.depile());
46              System.out.flush();
47              System.err.println("ERREUR : Pile devrait etre
   vide !!");
48              System.err.flush();
49          } catch (EmptyStackException e) {
50              System.out.println("TEST: Depile: previsible : Pile
   vide!");
51          }
52
53          System.out.println("Empile:" + pileTest.empile(s1));
54          System.out.println("Empile:" + pileTest.empile(s2));
55          System.out.println("Empile:" + pileTest.empile(s3));
56          System.out.println("Empile:" + pileTest.empile(s4));
57
58          System.out.println("TEST: ToString():" +
   pileTest.toString());
59
60          System.out.println("TEST: foreach on ToArray()");
61          Object[] objectArray = pileTest.toArray();
62          for (Object object : objectArray) {
63              System.out.println(object);
64          }
65
66          System.out.println("TEST Arrays.toString() on toArray()");
67          System.out.println(Arrays.toString(objectArray));
68
69          System.out.println("TEST: Iterateur");
70          Iterateur iter = pileTest.iterateur();
71          System.out.println("PossedeSuivant()?:" +
   iter.possedeSuivant());
72          while (iter.possedeSuivant()) {
73              System.out.println("Suivant:" + iter.suivant());
74              System.out.println("PossedeSuivant()?:" +
   iter.possedeSuivant());
75          }
76      }
77 }
78
```