

```

1 package maze.display;
2
3 import maze.data.MazeContainer;
4
5
6 /**
7  * A class that displays a textual version of the maze given
8  * in the form of a {@link MazeContainer}
9  *
10 * @author Pierre-Andre Mudry
11 * @date February 29th, 2012
12 * @version 1.0
13 */
14 public class TextDisplay {
15
16     /**
17      * Displays the maze given in parameter on the default console
18      *
19      * @param mazeC The {@link MazeContainer} to display
20      */
21     public static void displayMaze(MazeContainer mazeC) {
22
23         // Get the real labyrinth
24         MazeElem[][] maze = mazeC.maze;
25
26         // Size of the labyrinth
27         int nCellsX = mazeC.nCellsX;
28         int nCellsY = mazeC.nCellsY;
29
30         /**
31          * Draw the labyrinth
32          */
33         for (int i = 0; i < nCellsY; i++) {
34             // Draws the north edge
35             for (int j = 0; j < nCellsX; j++) {
36                 MazeElem e = maze[j][i];
37
38                 if (e.wallNorth)
39                     System.out.print "*---" ;
40                 else
41                     System.out.print "*   " ;
42             }
43
44             System.out.println "*";
45
46             // Draws the west edge
47             for (int j = 0; j < nCellsX; j++) {
48                 MazeElem e = maze[j][i];
49                 if (e.wallWest) {
50                     if (e.p1Present)
51                         System.out.print "| p1" ;
52                     else if (e.p2Present)
53                         System.out.print "| p2" ;
54                     else if (e.isExit)
55                         System.out.print "| e " ;
56                     else
57                         System.out.print "|   " ;
58                 } else {
59                     if (e.p1Present)
60                         System.out.print "  p1" ;
61                     else if (e.p2Present)
62                         System.out.print "  p2" ;
63                     else if (e.isExit)
64                         System.out.print "  e " ;
65                     else
66                         System.out.print "    " ;
67                 }
68             }
69
70             System.out.println "|";
71
72             // Draws the bottom line
73             for (int j = 0; j < nCellsX; j++) {
74                 System.out.print "*---" ;
75             }
76
77             System.out.println "*";
78         }
79
80         public static void main(String args[]) {
81             MazeContainer mg = new MazeContainer(5, 5);
82             TextDisplay.displayMaze(mg);
83         }
84

```