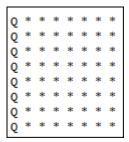


Damen-Problem Lösung bis Schritt 2





```
package ch.bbw.pr.dame;
 2
 3@ /**
     * Dame Application
 4
 5
 6
     * @author Peter Rutschmann
 7
    * @version 25.01.2018
 8
 9
    public class Application {
10
11⊜
        public static void main(String[] args) {
12
            int size = 8;
13
            DameProblem solver = new DameProblem(size);
14
15
            System.out.println("Damen Problem");
16
            System.out.println();
17
18
            //Start mit Zeile 0
19
            if (solver.setQueen(0))
20
            {
21
                //Printout des Spielfeldes
22
                for (int i = 0; i < size; i++)
23
                     for (int j = 0; j < size; j++)
24
25
                         if (solver.getBoard()[i][j] == 1)
26
27
                         {
28
                             System.out.print("Q ");
29
30
                         else
31
                         {
32
                             System.out.print("* ");
33
34
35
                     System.out.println();
36
37
            }
38
        }
39
```



```
🚺 DameProblem.java 🛭
   package ch.bbw.pr.dame;
   2
  3⊕ /**
      * Dame Data-Class
  4
  5
      * @author Peter Rutschmann
  6
  7
      * @version 25.01.2018
  8
  9 public class DameProblem {
         private static final int FIELD_FREE = 0;
  10
          private static final int FIELD_OCCUPIED = 1;
  11
 12
 13
          private int size;
         private int[][] board;
 14
 15
 16⊖
          public int[][] getBoard() {
             return board;
 17
 18
 19
          public DameProblem(int size) {
 20⊝
              super();
  21
              this.size = size;
  22
              this.board = new int[size][size];
  23
             for (int i = 0; i < size; i++) {
  24
                 for (int j = 0; j < size; j++) {
  25
                      board[i][j] = FIELD_FREE;
  26
  27
  28
              }
  29
          }
 30
         public boolean setQueen(int row)
 31⊖
 32
 33
              if (row >= size)
  34
              {
  35
                  //Abbruch, keine Queen mehr setzen
  36
                  return true;
  37
              for (int column = 0; column < size; column++)
 38
 39
 40
                  //Queen platzieren
                  board[row][column] = FIELD_OCCUPIED;
 41
 42
 43
                  //Nächste Queen setzen
 44
                 if (setQueen(row + 1))
 45
 46
                      return true;
 47
                  }
 48
 49
              return false;
  50
          }
```