

Testing SquareBoard.java

Test 1

8

```

| *       * |
|  *     *  |
|   *   *   |
|    **    |
|     **   |
|    *   *   |
|   *     *  |
|  *       *  |
| *         * |

```

pass

Student files

SquareBoard.java:

```

1  import java.util.Scanner;
2
3  public class SquareBoard
4  {
5      private String[][] board;
6      private int length;
7
8      /**
9       * Constructs an empty square game board.
10      * @param sideLength the length of each side
11      */
12      public SquareBoard(int sideLength)
13      {
14          length = sideLength;
15          board = new String[length][length];
16          // Fill with spaces
17          for (int i = 0; i < length; i++)
18              for (int j = 0; j < length; j++)
19                  board[i][j] = " ";
20      }
21
22      /**
23       * Creates a string representation of the board, such as
24       * | x o |
25       * |  x |
26       * | o |.
27       * @return the string representation
28       */
29      public String toString()
30      {
31          String r = "";
32          for (int i = 0; i < length; i++)
33          {
34              r = r + "|";
35              for (int j = 0; j < length; j++)
36                  r = r + board[i][j];
37              r = r + "|\n";
38          }
39          return r;
40      }
41
42      /**

```

```
43      Fills the diagonals of this square board with "*" strings.
44  */
45  public void fillDiagonals()
46  {
47      for (int i = 0; i < length; i++)
48      {
49          for ( int j = 0; j < length; j++)
50          {
51              if ( i==j )
52              {
53                  board[i][j] = "*";
54              }
55              if ( i + j == length - 1)
56              {
57                  board[i][j] = "*";
58              }
59          }
60      }
61
62
63
64  }
65
66  // This method is used to check your work.
67
68  public static void main(String[] args)
69  {
70      Scanner in = new Scanner(System.in);
71      int n = in.nextInt();
72      SquareBoard board = new SquareBoard(n);
73      board.fillDiagonals();
74      System.out.println(board.toString());
75  }
76  }
```

Score

1/1

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