```
package Assign 2;
2
3
4
   import Media.*;
                                      // for Turtle and TurtleDisplayer
                                      // for Color objects, constructor and methods
   import java.awt.*;
.5
   import static Media.Turtle.*;
                                      // for Turtle speeds
   import static java.lang.Math.*;
                                      // for Math constants and functions
8
   import static java.awt.Color.*;
                                      // for Color constants
   /** This class creates a cover with rows of diamond-like patches composed of
10
   isoceles triangles.
11
12
     * @author Micah Rose-Mighty
13
14
     * @version 1.0 2018/10/05
1.5
   public class Cover {
16
17
     private TurtleDisplayer display;
     private Turtle
18
                               yertle;
   // instance variables
19
20
21
22
     //This constructor runs the methods needed for the program to produce the cover.
23
     public Cover ( ) {
24
25
       display = new TurtleDisplayer();
26
       yertle = new Turtle(FAST);
27
       display.placeTurtle(yertle);
28
       yertle.moveTo(-120,120);
29
       drawTriangle();
30
       drawPatch();
31
       drawRow();
32
       drawCover();
33
       yertle.moveTo(0,0);
34
       display.close();
35
     }; // constructor
36
37
     //method draws an isoceles triangle.
38
39
     private void drawTriangle ( ) {
       yertle.penDown();
40
41
       yertle.forward(30);
       yertle.left(3*PI/4);
42
43
       yertle.forward(Math.sqrt(1800));
       vertle.left(3*PI/4);
44
4.5
       yertle.forward(30);
46
       yertle.penUp();
47
48
49
   //method draws a diamond-like patch composed of 4 isoceles triangles
50
     private void drawPatch() {
51
      yertle.penDown();
                        i<=4; i++ ) {
52
       for (int i = 1;
        yertle.right(PI);
53
54
        drawTriangle();
55
56
57
      yertle.penUp();
58
59
60
   //method draws a row consisting of 5 diamond-like patches.
     private void drawRow()
61
                               {
62
        yertle.left(PI/2);
        for (int k = 1; k <= 4; k++) {
63
64
          yertle.forward(60);
65
          drawPatch();
66
67
      //method draws 5 rows that cover the entire display.
68
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```

```
69
      private void drawCover() {
70
        int x;
71
72
        int y;
73
       x = -120;

y = 60;
74
75
76
        for ( int l = 1 ; l <= 4 ; l++) {
  yertle.moveTo(x,y);</pre>
77
78
79
           drawPatch();
80
           drawTriangle();
81
       y -=60;
          drawRow();
82
83
84
85
public static void main ( String[] args ) { Cover s = new Cover(); };
// Cover
```