

Additional Practice for the Last Coding Question

(a) Square – User enters a dimension, and program draws a square of that size.

<pre>How big? 2 ** **</pre>	<pre>How big? 8 ***** ***** ***** ***** ***** ***** ***** *****</pre>	<pre>How big? -2 Can't be drawn</pre>
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(b) Triangle – User enters a dimension, and program draws a triangle of that size.

<pre>How big? 2 * **</pre>	<pre>How big? 8 * ** *** **** ***** ***** ***** *****</pre>	<pre>How big? 0 Can't be drawn</pre>
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(c) Diagonal – User enters a dimension, and program draws a diagonal of that size.

<pre>How big? 3 * * *</pre>	<pre>How big? 7 * * * * * * *</pre>	<pre>How big? 0 Can't be drawn</pre>
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(d) Triangle 2 – User enters a dimension, and program draws a triangle of that size.

<pre>How big? 2 * **</pre>	<pre>How big? 6 * ** *** **** ***** ******</pre>	<pre>How big? -6 Can't be drawn</pre>
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(e) Letter Z – User enters a dimension, and program draws a Z of that size.

<pre>How big? 3 *** * ***</pre>	<pre>How big? 5 ***** * * * * *****</pre>	<pre>How big? 1 Can't be drawn</pre>	<pre>How big? 2 Can't be drawn</pre>
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public class SELECTEDsolutionsSHAPES {
    public static void main (String args[]) {
        new SELECTEDsolutionsSHAPES ();
    }

    public SELECTEDsolutionsSHAPES () {
        //(a) Square-----
        int n = IO.inputInt ("How big? ");
        if (n <= 0)
            System.out.println ("Can't be drawn.");
        else
        { //draw square
            for (int i = 0 ; i < n ; i++) {
                for (int j = 0 ; j < n ; j++) {
                    System.out.print ("*");
                }
                System.out.println ("");
            }
        }
        //(c)Diagonal-----
        int m = IO.inputInt ("How big? ");
        if (m <= 0)
            System.out.println ("Can't be drawn.");
        else
        { //draw diagonal
            for (int i = 0 ; i < m ; i++) {
                for (int j = 0 ; j < (m - i - 1) ; j++) {
                    System.out.print (" ");
                }
                System.out.println ("*");
            }
        }
        //(e) Z shape -----
        int s = IO.inputInt ("How big? ");
        if (s <= 2)
            System.out.println ("Can't be drawn.");
        else {
            //top
            for (int i = 0 ; i < s ; i++) {
                System.out.print ("*");
            }
            System.out.println ("");
            //draw diagonal
            for (int i = 0 ; i < s - 2 ; i++) {
                for (int j = 0 ; j < (s - i - 2) ; j++) {
                    System.out.print (" ");
                }
                System.out.println ("*");
            }
            //bottom
            for (int i = 0 ; i < s ; i++){
                System.out.print ("*");
            }
            System.out.println ("");
        }
    }
}

```