Question 1 – `drawDoubleRamp(size)`

size = 3

```text
*    *
**  **
******
```

size = 4

```text
*      *
**    **
***  ***
********
```

size = 5

```text
*        *
**      **
***    ***
****  ****
**********
```

Question 3 – `drawTrapezoid(size)`

size = 3

```text
******
 ******
  ******
```

size = 4

```text
******
 ******
  ******
   ******
```

size = 5

```text
******
 ******
  ******
   ******
    ******
```

Program #3 - drawFigure() - 16 points

Write a method named `drawFigure()` that prints the following figures, based on a parameter representing the size. Examples:

Size	Figure

3	`|--*--|`
	`|-***-|`
	`|*****|`

5	`|----*----|`
	`|---***---|`
	`|--*****--|`
	`|-*******-|`
	`|*********|`

8	`|-------*-------|`
	`|------***------|`
	`|-----*****-----|`
	`|----*******----|`
	`|---*********---|`
	`|--***********--|`
	`|-*************-|`
	`|***************|`

```
public static void main(String[] args) {
    drawFigure(8);
}

public static void printChars(String chars, int count) {
    for (int i = 1; i <= count; i++) {
        System.out.print(chars);
    }
}
```

Key for Question 1 – `drawDoubleRamp(int size)`

Pattern (for size 4):

```text
*      *
**    **
***  ***
********
```

Implementation:

```java
public static void drawDoubleRamp(int size) {
    for (int line = 1; line <= size; line++) {
        int leftStars  = 1 * line + 0 * size + 0;
        int spaces     = -2 * line + 2 * size + 0;
        int rightStars = 1 * line + 0 * size + 0;

        for (int i = 0; i < leftStars; i++) {
            System.out.print("*");
        }
        for (int i = 0; i < spaces; i++) {
            System.out.print(" ");
        }
        for (int i = 0; i < rightStars; i++) {
            System.out.print("*");
        }
        System.out.println();
    }
}
```

Key for Question 3 – `drawTrapezoid(int size)`

Pattern (for size 4):

```text
******
 ******
  ******
   ******
```

Implementation:

```java
public static void drawTrapezoid(int size) {
    for (int line = 1; line <= size; line++) {
        int leftSpaces = 1 * line + 0 * size - 1;
        int stars      = 0 * line + 2 * size - 2;

        for (int i = 0; i < leftSpaces; i++) {
            System.out.print(" ");
        }
        for (int i = 0; i < stars; i++) {
            System.out.print("*");
        }
        System.out.println();
    }
}
```

```
public static void drawFigure(int size){

    for(int i=1; i<=size; i++){
        System.out.print("|");
        printChars("-", -1*i+size);
        printChars("*", 2*i-1);
        printChars("-", -1*i+size);
        System.out.println("|");

    }

}
```