

BJP4 Exercise 1.13: StarFigures

[Show Header](#)

Language/Type: [Java classes](#) [method basics](#) [prints](#) [redundancy](#)

Author: Marty Stepp (on 2016/03/08)

Write a complete Java program in a class named `StarFigures` that generates the following output. Use static methods to show structure and eliminate redundancy in your solution.

```
*****
*****
 * *
 *
 * *

*****
*****
 * *
 *
 * *
*****
*****

 *
 *
 *
*****
*****
 * *
 *
 * *
```

Type your solution here:

```
1 public class StarFigures
2 {
3     public static void main (String[] args){
4         patternOne();
5         System.out.println("    ");
6         fiveStars();
7         twoDnsTwo();
8         fiveStars();
9         System.out.println("    ");
10        oneStars();
11        patternOne();
12    }
13
14    public static void fiveStars(){
15        System.out.println("*****\n*****");
16    }
17
18    public static void twoDnsTwo(){
19        System.out.println(" * * \n * \n * * ");
20    }
21    public static void oneStars(){
22        System.out.println(" * \n * \n * ");
23    }
24    public static void patternOne(){
25        fiveStars();
26        twoDnsTwo();
27    }
28 }
```

This problem asks for a complete program. Write a complete Java program as a class with a `main` method. (You do not need to write any import statements.)



4

Indent

Submit

☒ Sound Fix
☒ Highlighting

You passed 1 of 1 tests.

[Go to the next problem: Lanterns](#)

test #1: output

console output:

```
*****
*****
 * *
 *
 * *

*****
*****
 * *
 *
 * *
*****
*****

 *
 *
 *
*****
*****
 * *
 *
 * *
```

result: pass

○ BJP4 Self-Check 1.22: Tricky

Language/Type:  Java [classes](#) [method basics](#) [mystery](#) [println](#)

Author: Marty Stepp (on 2016/09/08)

What is the output produced from the following program? You may wish to draw a structure diagram first.

```
public class Tricky {  
    public static void main(String[] args) {  
        message1();  
        message2();  
        System.out.println("Done with main.");  
    }  
  
    public static void message1() {  
        System.out.println("This is message1.");  
    }  
  
    public static void message2() {  
        System.out.println("This is message2.");  
        message1();  
        System.out.println("Done with message2.");  
    }  
}
```

output

```
This is message1.  
This is message2.  
This is message1.  
Done with message2.  
Done with main.
```

 **Submit**

✔ You passed 1 of 1 tests.

[Go to the next problem: Strange](#)

| # | question | your answer | result |
|---|----------|---|--------|
| 1 | output | This is message1. This is message2. This is message1. Done with message2. Done with main. | ✔ pass |

○ BJP4 Self-Check 1.23: Strange

Language/Type: [Java](#) [classes](#) [method basics](#) [mystery](#) [println](#)
Author: Roy McElmury (on 2016/09/08)

What is the output produced from the following program? You may wish to draw a structure diagram first.

```
public class Strange {  
    public static void main(String[] args) {  
        first();  
        third();  
        second();  
        third();  
    }  
  
    public static void first() {  
        System.out.println("Inside first method.");  
    }  
  
    public static void second() {  
        System.out.println("Inside second method.");  
        first();  
    }  
  
    public static void third() {  
        System.out.println("Inside third method.");  
        first();  
        second();  
    }  
}
```

output

```
Inside first method.  
Inside third method.  
Inside first method.  
Inside second method.  
Inside first method.  
Inside second method.  
Inside first method.  
Inside third method.  
Inside first method.  
Inside second method.  
Inside first method.
```

 Submit

✔ You passed 1 of 1 tests.

[Go to the next problem: Strange2](#)

| # | question | your answer | result |
|---|----------|---|--------|
| 1 | output | Inside first method. Inside third method. Inside first method. Inside second method. Inside first method. Inside second method. Inside first method. Inside third method. Inside first method. Inside second method. Inside first method. | ✔ pass |

BJP4 Self-Check 1.24: Strange2

Language/Type: [Java](#) [classes](#) [method basics](#) [mystery](#) [println](#)
Author: Roy McElmurry (on 2016/09/08)

What is the output produced from the following program? You may wish to draw a structure diagram first. This is a slightly modified version of the previous problem, Strange.


```
public class Strange {  
    public static void main(String[] args) {  
        first();  
        third();  
        second();  
        third();  
    }  
  
    public static void first() {  
        System.out.println("Inside first method.");  
    }  
  
    public static void second() {  
        System.out.println("Inside second method.");  
        first();  
    }  
  
    public static void third() {  
        first();  
        second();  
        System.out.println("Inside third method.");  
    }  
}
```

output


```
Inside first method.  
Inside first method.  
Inside second method.  
Inside first method.  
Inside third method.  
Inside second method.  
Inside first method.  
Inside first method.  
Inside second method.  
Inside first method.  
Inside third method.
```

☒ Sound F/X

 Submit

 You passed 1 of 1 tests.

[Go to the next problem: Strange3](#)

| # | question | your answer | result |
|---|----------|---|--|
| 1 | output | Inside first method. Inside first method. Inside second method. Inside first method. Inside third method. Inside second method. Inside first method. Inside first method. Inside second method. Inside first method. Inside third method. |  pass |

○ BJP4 Self-Check 1.25: Strange3

Language/Type: [Java](#) [classes](#) [method basics](#) [mystery](#) [println](#)

Author: Roy McElmurry (on 2016/09/08)

What is the output produced from the following program? You may wish to draw a structure diagram first. This is a slightly modified version of the previous problem, Strange.

```
public class Strange {
    public static void main(String[] args) {
        second();
        first();
        second();
        third();
    }

    public static void first() {
        System.out.println("Inside first method.");
    }

    public static void second() {
        System.out.println("Inside second method.");
        first();
    }

    public static void third() {
        System.out.println("Inside third method.");
        first();
        second();
    }
}
```

output

```
Inside second method.
Inside first method.
Inside first method.
Inside second method.
Inside first method.
Inside third method.
Inside first method.
Inside second method.
Inside first method.
```

☒ Sound F/X

 Submit

✔ You passed 1 of 1 tests.

[Go to the next problem: Confusing](#)

| # | question | your answer | result |
|---|----------|---|--------|
| 1 | output | Inside second method. Inside first method. Inside first method. Inside second method. Inside first method. Inside third method. Inside first method. Inside second method. Inside first method. | ✔ pass |