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Post-Lab Stage 3

Fill in The Blank

1. If a method does not return a value, its return type is void.
2. The way we run a method in our code is by calling it in our main function.
3. We pass information into a methods using parameters.
4. If we want to round a number (as opposed to truncating it), the method we use is:
Math.round().

Be the Machine

Assume that we have the following method declarations:

```
public int theAnswer()  
{  
    return 42;  
}
```

theAnswer

```
public void outputXTimes(int x) = 3  
{  
    for (int i = 0; i < x; i++)  
    {  
        System.out.println("The Answer is 42");  
    }  
}
```

*The Answer is 42 6
The Answer is 42 1
The Answer is 42 2*

```
public void putTogether(int x, int y)  
{  
    for (int i = 0; i < x; i++)  
    {  
        for (int i = 0; i < y; i++)  
        {  
            System.out.println(x + " " + y)  
        }  
    }  
}
```

*i [0 x 2 3
x [2
y [3*

*2,3
2,3
2,3*

What would be the output for each of the following:

5. `System.out.println(theAnswer());`

42

6. `outputXTimes(3);`

The Answer is 42
The Answer is 42
The Answer is 42

7. `putTogether(2, 3);`

2 3
2 3
2 3

(would not run
till I removed
the second int
)

Code

For the problems in this part of the assignment, use the scrapbook to write the code and then copy/paste it here when it works. The scrapbook can use classes defined in your project. For these problems, create the Box class from the Content Questions in your Stage 3 Java project. Then use a scrapbook page to play with calling the methods to produce the requested output.

For example, this scrapbook page code:

```
Box b = new Box();
for (int i = 1; i < 5; i++)
{
    b.drawFullLine(i);
}
```

Produces this output:

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

8. Write code that produces this output

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

Paste your code here:

```
public class Box {
    public void drawFullLine(int length) {
        for (int i = 0; i < length; i++) {
            System.out.print("*");
        }
        System.out.println();
    }

    public void drawEdges(int length) {
        System.out.print("****");
        for (int i = 0; i < length - 2; i++) {
            System.out.print(" ");
        }
        System.out.println("****");
    }

    public void drawBox(int size) {
        drawFullLine(size);
        for (int i = 0; i < size - 2; i++) {
            drawEdges(size);
        }
        drawFullLine(size);
    }

    public static void main(String[] args) {
        Box b = new Box();
        for (int i = 1; i < 5; i++) {
            b.drawFullLine(4);
        }
    }
}
```

9. Write code that produces this output

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

Paste your code here:

```
public static void main(String[] args) {  
    Box b = new Box();  
    for (int i = 2; i < 7; i++) {  
        b.drawEdges(i);  
    }  
    System.out.print("*****");  
}
```