

# Nested Loops

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Java

# Starting with a normal loop

```
for(int j = 0; j < 5; j++){  
    System.out.print("* ");  
}
```

This loop prints out 5 asterisks

\* \* \* \* \*

## Starting with a normal loop

```
for(int j = 0; j < 5; j++){  
    System.out.print("* ");  
}
```

Below is the step by step process of how the loop prints

i	value	Output
0	Print out "* "	*
1	Print out "* "	* *
2	Print out "* "	* * *
3	Print out "* "	* * * *
4	Print out "* "	* * * * *

Now we can loop the loop to get a box of asterisks!

```
for(int j = 0; j < 5; j++){  
    System.out.print("* ");  
}
```

This loop prints out 5 asterisks

```
* * * * *
```

Our goal is to create this box below!

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

Now we can loop the loop to get a box of asterisks!

```
for(int j = 0; j < 5; j++){  
    System.out.print("* ");  
}
```

This loop prints out 5 asterisks

\* \* \* \* \*

Take the code on the left and  
loop it 4 times

1	*	*	*	*	*
2	*	*	*	*	*
3	*	*	*	*	*
4	*	*	*	*	*

# Lab: Nested Loops

1. Have the user input the width and height of a box.
2. Have the user input a character to print out in the shape of a box.
3. Take the width and height and output a box of choice.

## Example Output:

What symbol would you like to use? &

What's the width of your box? 5

What's the height of your box? 3

&&&&&

&&&&&

&&&&&