

Lab: Nested loop problems

1. Write a function called `rectangle` that takes two parameters, width and height, and prints a rectangle using stars (asterisks) of that given width and height.

Example: `rectangle(5, 3)` prints:

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

(Do not use the `"*" * 5` syntax. We haven't officially learned that, but more importantly, it obscures the nested loop idea. It is also not built into most programming languages)

2. Write a function called `lower_left` that takes one parameter called `size`. This function prints a right triangle using stars where the base and height are both `size` stars long/high. The 90-degree vertex of the triangle is at the lower left.

Example: `lower_left(5)` prints:

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

3. Write functions `upper_left`, `lower_right`, and `upper_right` that each also take a parameter called `size` and print the other three types of right triangle, respectively.

<u>upper_left(5)</u>	<u>lower_right(5)</u>	<u>upper_right(5)</u>
*****	*	*****
****	**	****
***	***	***
**	****	**
*	*****	*

Hint: `lower_right` and `upper_right` are challenging. Consider writing a function of one argument called `print_n_stars(n)` that prints a single line of `n` stars, and using this helper function to build `lower_right` and `upper_right`. You may also want to write one for printing spaces.

4. Write programs that draw the following diagrams:

