

Name: _____ CM: _____ Section: _____ Grade: _____ of 10

- In the table below, read the code in the **first** column. Then write in the **second** column what it prints when it runs.
- In the table below, read the code in the **third** column. Then write in the **fourth** column what it prints when it runs.

For problem 1		For problem 2	
<pre>for j in range(4): for k in range(2): print(j, k)</pre>	<u>Output:</u>	<pre>for j in range(4): for k in range(j): print(j, k)</pre>	<u>Output:</u>

- In problems where we are trying to write code to print patterns (like triangular or rectangular in shape) to the console, we try to “separate concerns” into 3 parts and address them one at a time. Number the first concern we address with a 1, second with a 2, etc. Leave blank the one that isn’t a concern.

Get the values that are printed correct Get the *return* statement correct
 Get the number of rows correct Get the number of columns correct

- You learned in a video that the code in the **first** column below prints a triangle of stars with *n* rows and *n* columns, as shown in the picture in the **second** column for *n=4*. For each of the remaining three columns, indicate **what expression involving *j* and/or *k* should be in the *print* statement instead of the *** to produce the output for that column**. Write your answer inside the column, below the output.

<pre>for j in range(n): for k in range(j + 1): print("*", end="") print()</pre>	<pre>* ** *** ****</pre>	<pre>1 12 123 1234</pre>	<pre>1 22 333 4444</pre>	<pre>0 12 234 3456</pre>
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