Assignment 2
Due: Wednesday, February 5

Write a program to print a portion of the Sierpinski triangle, as follows. You will print a square grid using two different characters, perhaps an asterisk and a blank space. For example, the $8 \times 8$ grid would then look like the figure at the right.

Note that this is “square” in the sense that the number of rows and columns is the same. If you prefer, you may add extra spaces to each row to make the horizontal spacing closer to the vertical spacing, as shown to the right.

Suppose the columns and rows are numbered starting at zero; in the example they are numbered zero through seven. At row number $r$ and column number $c$, compute the “bitwise-and” of the numbers using $r \& c$. If this value is zero print one character, say the asterisk, and otherwise print the other character.

Your program should request the size of the grid, check that the supplied number is larger than zero, and print the grid. To print the grid, call a function, like “sierpinski(rows)”, assuming $rows$ is a variable holding the desired number of rows. The program should look something like this when used:

```
$ ./sierpinski
Grid size: -4
Size must be positive, enter again: 0
Size must be positive, enter again: 8

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

$ 
```

You may copy my version of this program by giving this command:

```
cp ~guichard/167/assignment2/* .
```