Nested square (2)   X39051_en

Write code for, given a non-negative integer n, printing a nested square of size n, as shown in the examples.

The program must implement and use the NESTED-SQUARE function, which must be recursive and is not allowed to perform input/output operations.

Make one submission with Python code and another submission with C++ code.

Input

The input is an integer $n \geq 0$.

Output

The output is a nested square of size n.

Sample input 1	Sample output 1
1	`*`

Sample input 2	Sample output 2
2	`**` `**`

Sample input 3

12

Sample output 3

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

Problem information

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