

Problem R. Square Diagonals

Time limit 1000 ms
Mem limit 524288 kB
OS Windows

Given a number N . Print the square diagonals.

For more clarification see the example below.

Input

Only one line containing a number ($1 \leq N \leq 99$).

Output

Print the answer according to the required above.

Examples

Input	Output
4	<pre>* * * * * * * *</pre>