Write a program that prints squares $n \times n$. Draw each square independently, and start filling it with 0, 1, \ldots, 9, 0, etc.

**Input**

Input consists of several natural numbers between 1 and 9.

**Output**

For every $n$, print a square of size $n \times n$, by filling it with 0, 1, \ldots, 9, 0, etc. Separate two squares with an empty line.

<table>
<thead>
<tr>
<th>Sample input 1</th>
<th>Sample output 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>012</td>
</tr>
<tr>
<td></td>
<td>345</td>
</tr>
<tr>
<td></td>
<td>678</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>012345</td>
</tr>
<tr>
<td></td>
<td>678901</td>
</tr>
<tr>
<td></td>
<td>234567</td>
</tr>
<tr>
<td></td>
<td>890123</td>
</tr>
<tr>
<td></td>
<td>456789</td>
</tr>
<tr>
<td></td>
<td>012345</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample input 2</th>
<th>Sample output 2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample input 3</th>
<th>Sample output 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>01234</td>
</tr>
<tr>
<td></td>
<td>56789</td>
</tr>
<tr>
<td></td>
<td>01234</td>
</tr>
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<td></td>
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</tr>
<tr>
<td></td>
<td>01234</td>
</tr>
</tbody>
</table>

**Problem information**

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Generation: 2023-07-14 17:54:53

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