Recursive pattern with closure   X59159_en

Deduce from the given examples what has to be done in this problem. Find a solution with a `RECURSIVE` function/procedure, which writes to the output.

Input

The input has several cases. Each case consists of a positive natural number in one line.

Output

For each case, a recursive sequence is drawn on the output, followed by a blank line. Pay attention to the examples to deduce what the output has to be for each input.

Sample input	Sample output
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Problem information