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**Latin square****P18900\_en**

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Write a program that prints all the latin squares  $n \times n$  with the first row in increasing order. A latin square must contain all the numbers between 0 and  $n - 1$  in each row and column.

**Input**

Input consists of a natural number  $1 \leq n \leq 5$ .

**Output**

Your program must print all the latin squares  $n \times n$  with the first row in increasing order. It must print a line in white after each combination.

**Information about the checker**

You can print the solutions to this exercise in any order.

**Sample input 1**

3

**Sample output 1**

012
120
201
012
201
120

**Problem information**

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Generation: 2026-01-25T10:22:21.763Z

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