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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 nummbers 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

3

### Sample output

012  
120  
201

012  
201  
120

### Problem information

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Generation : 2024-04-30 16:21:37

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