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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# B. Present from Lena

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Vasya's birthday is approaching and Lena decided to sew a patterned handkerchief to him as a present. Lena chose digits from 0 to n as the pattern. The digits will form a rhombus. The largest digit n should be located in the centre. The digits should decrease as they approach the edges. For example, for n=5 the handkerchief pattern should look like that:

Your task is to determine the way the handkerchief will look like by the given n.

#### Input

The first line contains the single integer n ( $2 \le n \le 9$ ).

# Output

Print a picture for the given n. You should strictly observe the number of spaces before the first digit on each line. Every two adjacent digits in the same line should be separated by exactly one space. There should be no spaces after the last digit at the end of each line.

## **Examples**

input	Сору
2	
output	Сору
0 0 1 0 0 1 2 1 0 0 1 0	



### → Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

# Codeforces Beta Round #89 (Div. 2)

#### **Finished**

## → Virtual participation

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Start virtual contest

# → Problem tags

constructive algorithms implementation
\*1000

No tag edit access

#### → Contest materials

Tutorial #2

AnnouncementTutorial #1 (en)

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0 1 0

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