



# Spiral Matrix

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✓ **Points:** 100 (partial)

⌚ **Time limit:** 0.5s

C#: 0.1s

Java 9: 1.0s

📄 **Memory limit:** 32M

C#: 32M

Java 9: 32M

✍ **Author:**

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🏷 **Tags**

Loops, Numeral Systems

⬆ **Difficulty**

Easy

Write a program that reads from the console a positive integer number **N** ( $1 \leq N \leq 20$ ) and prints a matrix holding the numbers from **1** to **N\*N** in the form of square spiral like in the examples below.

## Input

- The input will always consist of a single line containing a single number - **N**.

## Output

- Output a spiral matrix as described below.

## Constraints

- N** will always be a valid integer number.
- $1 \leq N \leq 20$
- Time limit: **0.1s**
- Memory limit: **16MB**

## Sample tests

| Input | Output |
|-------|--------|
|-------|--------|

|   |   |
|---|---|
| 2 | 1 2<br>4 3                                      |
| 3 | 1 2 3<br>8 9 4<br>7 6 5                         |
| 4 | 1 2 3 4<br>12 13 14 5<br>11 16 15 6<br>10 9 8 7 |

## 💬 Comments



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