

Problem 59: Spiral Matrix II

Problem Information

Difficulty: Medium

Acceptance Rate: 74.24%

Paid Only: No

Tags: Array, Matrix, Simulation

Problem Description

Given a positive integer n , generate an $n \times n$ matrix filled with elements from 1 to n^2 in spiral order.

Example 1:

 (https://assets.leetcode.com/uploads/2020/11/13/spiraln.jpg)

Input: $n = 3$ **Output:** $[[1,2,3],[8,9,4],[7,6,5]]$

Example 2:

Input: $n = 1$ **Output:** $[[1]]$

Constraints:

$1 \leq n \leq 20$

Code Snippets

C++:

```
class Solution {
public:
    vector<vector<int>> generateMatrix(int n) {
```

```
}  
};
```

Java:

```
class Solution {  
    public int[][] generateMatrix(int n) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def generateMatrix(self, n: int) -> List[List[int]]:
```