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Description

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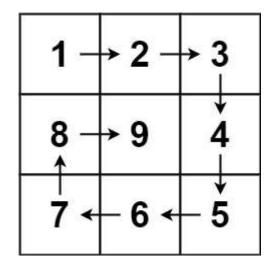
△ Solution

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

□ Discuss (999+)

Submissions

Example 1:



Input: n = 3

Output: [[1,2,3],[8,9,4],[7,6,5]]

Example 2:

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

Constraints:

• 1 <= n <= 20

Accepted 319,768 Submissions 510,261

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Console - Contribute i

i Java

1

2 public int[][] generateMatrix(int n) { 3 4 int[][] matrix = new int[n][n]; 5 int counter = 1; int top = 0; 8 int left = 0; 9 int bottom = n - 1; 10 int right = n - 1; 11 12 while(true){ 13 14 for(int i = left; i <= right; i++){</pre> matrix[top][i] = counter++; 15 16 17 18 top++; 19 if(left > right | top > bottom) 20 21 break; 22 23 for(int i = top; i <= bottom; i++){</pre> matrix[i][right] = counter++; 24 25 26 27 right--; 28 29 if(left > right || top > bottom) 30 break; 31 32 for(int i = right; i >= left; i--){ 33 matrix[bottom][i] = counter++; 34 35 36 bottom--; 37 38 if(left > right | top > bottom) 39 break; 40 41 for(int i = bottom; i>= top; i--){ 42 matrix[i][left] = counter++; 43 44 45 left++; 46 47 if(left > right | top > bottom) 48 break; 49 50 51 return matrix; 52 53

Autocomplete

class Solution {