**6 kyu**

**Invert Array Middle**

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Java

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Given a n with constrain 1 <= n <= 100. Your task is create a 2d array with size n\*n, then invert its the middle element from row to column.

**Example**

n = 5  
**Output:**

[[1,6,11,16,21],

[2,7,8,9,22],

[3,12,13,14,23],

[4,17,18,19,24],

[5,10,15,20,25]]

Explaination : integer [1,2,3,4,5] stay at its position, [1,6,11,16,21], [21,22,23,24,25],[5,10,15,20,25] also stay in its position, and the middle result after invert are :

[[7,8,9],

[12,13,14],

[17,18,19]]

and before invert :

[[7,12,17],

[8,13,18],

[9,14,19]]

the n[0][0],n[1][0],n[2][0] are inverted to n[0][0],n[0][1],`n[0][2``

**Example #2**

n = 4  
**Output:**

[[1,5,9,13],

[2,6,7,14],

[3,10,11,15],

[4,8,12,16]]

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\*/

package javaapplication55;

/\*\*

\*

\* @author Usuario

\*/

public class JavaApplication55 {

public static int[][] invertArrayMiddle(int n)

{

int[][] matriz = new int[n][];

for (int i = 0; i < n; i++)

{

matriz[i] = new int[n];

for (int j = 0; j < n; j++)

{

matriz[i][j] = 0;

}

}

int num = 1;

for (int col = 0; col < n; col++)

{

for (int fila = 0; fila < n; fila++)

{

matriz[fila][col] = num++;

}

}

// MostrarMatriz(matriz);

for (int i = 1; i < (n - 1); i++)

{

for (int j = 1; j < i; j++)

{

int temp = matriz[i][j];

matriz[i][j] = matriz[j][i];

matriz[j][i] = temp;

}

}

//MostrarMatriz(matriz);

return matriz;

}

public static void main(String[] args) {

// TODO code application logic here

int[][] res = invertArrayMiddle(5);

for(int i =0; i<5; i++)

{

for(int j =0; j<5; j++)

{

System.out.print(res[i][j] + " ");

}

System.out.println();

}

}

}