import java.util.Objects;

import java.util.Scanner;

import java.util.Arrays;

class Spiral {

static int[][] spiral(int m, int n) {

// Initialize value to be filled in matrix

int val = 1;

int[][] a = new int[m][n];

/\* k - starting row index

m - ending row index

l - starting column index

n - ending column index \*/

int k = 0, l = 0;

while (k < m && l < n)

{

/\* Print the first row from the remaining

rows \*/

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

a[k][i] = val++;

k++;

/\* Print the last column from the remaining

columns \*/

for (int i = k; i < m; ++i)

a[i][n-1] = val++;

n--;

/\* Print the last row from the remaining

rows \*/

if (k < m)

{

for (int i = n-1; i >= l; --i)

a[m-1][i] = val++;

m--;

}

/\* Print the first column from the remaining

columns \*/

if (l < n)

{

for (int i = m-1; i >= k; --i)

a[i][l] = val++;

l++;

}

}

return a;

}

}