public [class](http://comproguide.blogspot.com/2013/11/printing-matrix-in-spiral-order.html) TwoDSpiral {

public static void main(String[] args)

{

int [][]matrix = {

{1,2,3,4},

{5,6,7,8},

{9,10,11,12},

{13,14,15,16}

};

arraySpiral(matrix);

}

public static void arraySpiral(int matrix[][])

{

int topArray = 0;

int bottomArray = matrix.length-1; //number of rows - 1

int leftArray = 0;

int rightArray = matrix[0].length-1;//number of columns - 1

int direction = 0;

while ( topArray <= bottomArray && leftArray <= rightArray )

{

int i = 0;

if( direction == 0 )//print top row from left to right

{

for( i = leftArray; i <= rightArray; i++ )

{

System.out.print( matrix[topArray][i]+ " " );

}

topArray++;

direction = 1;

}

else if( direction == 1 ) //print right column from top to bottom

{

for( i = topArray; i <= bottomArray; i++ )

{

System.out.print( matrix[i][rightArray] + " " );

}

rightArray--;

direction = 2;

}

else if( direction == 2 )//print bottom row from right to left

{

for( i = rightArray; i >= leftArray; i-- )

{

System.out.print(matrix[bottomArray][i] + " ");

}

bottomArray--;

direction = 3;

}

else//print left column from bottom top

{

for( i = bottomArray; i >= top; i-- )

{

System.out.print( matrix[i][leftArray] + " " );

}

leftArray++;

direction = 0;

}

}

}

}