Day-7

Minor diagonal of a matrix in java

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

int n= in.nextInt();

int m=in.nextInt();

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

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

{

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

{

a[i][j]=in.nextInt();

}

}

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

{

System.out.print(a[i][n-i-1]+" ");

}

}

}

Main diagonal in java

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

int n= in.nextInt();

int m=in.nextInt();

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

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

{

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

{

a[i][j]=in.nextInt();

}

}

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

{

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

{

if(i==j)

{

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

}

}

System.out.println();

}

}

}

Wave traversal in java

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner in = new Scanner(System.in);

int n= in.nextInt();

int m=in.nextInt();

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

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

{

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

{

a[i][j]=in.nextInt();

}

}

for(int j = 0; j < cols; j++) {

if (j % 2 == 0) {

// even column - top to bottom

for (int i = 0; i < rows; i++) {

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

}

} else {

// odd column - bottom to top

for (int i = rows - 1; i >= 0; i--) {

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

}

}

}

}

}