#### https://course.acciojob.com/idle?question=0b1f1509-73d0-4035-b28 0-affb1c9bd1eb

- EASY
- Max Score: 30 Points
- •

## **Toeplitz Matrix**

Given an m x n matrix, return true if the matrix is Toeplitz. Otherwise, return false.

A matrix is Toeplitz if every diagonal from top-left to bottom-right has the same elements.

#### **Input Format**

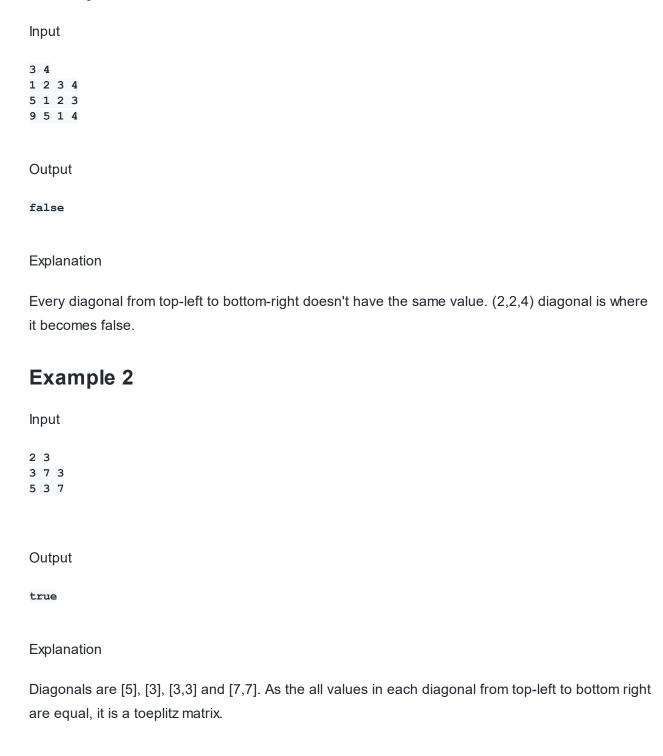
First line contains two integers, m and n which define the row and column size of the matrix respectively.

Next each of 'm' lines contain 'n' space separated integers that denote the matrix elements.

#### **Output Format**

Return true if a matrix is Toeplitz Matrix, else return false.

### **Example 1**



# Constraints

m == matrix.length

```
n == matrix[i].length

1 <= m, n <= 20

0 <= matrix[i][j] <= 99</pre>
```

#### **Topic Tags**

• 2D-Arrays

# My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
      public static void main (String[] args) throws java.lang.Exception
      {
           //your code here
            Scanner s=new Scanner(System.in);
            int n=s.nextInt();
             int m=s.nextInt();
            int arr[][]=new int [n][m];
            for(int i=0;i< n;i++)
                  for(int j=0;j< m;j++)
                        arr[i][j]=s.nextInt();
            int flag=0;
            for(int i=0;i< m;i++)
                  {
                        int lp=0;
```

```
int rp=i;
                  int chech_var=arr[lp][rp];
                  while(lp<n &&rp<m)
                         if(arr[lp++][rp++]!=chech_var)
                              flag=1;
                        }
      for(int i=1;i<n;i++)
                  int lp=i;
                  int rp=0;
                     int chech_var=arr[lp][rp];
                  while(lp<n &&rp<m)
                        {
                            if(arr[lp++][rp++]!=chech_var)
                              flag=1;
                        }
      if(flag==0)
            System.out.print("true");
      else System.out.print("false");
}
```

}