

HW_Rotation Check In Matrix Leaderboard Discussions Check whether all rows of a matrix are circular rotations of each other. Given a matrix of $\mathbf{N} \star \mathbf{N}$ size, the task is to find whether all **rows** are circular rotations of each other or Input Format First line contains integer ${\bf N}$ as integer Input. Second line contains $\mathbf{N} \star \mathbf{N}$ elements as Elements of matrix. Constraints 1 <= N <= 1000 0 <= mat[i][j] <= 1000 Output Format Return "YES" OR "NO" Sample Input 0 3 1 2 2 3 1 3 1 Sample Output 0 YES / Explanation 0 2 All rows are rotated permutation of each other. Sample Input 1 3 1 2 3 3 2 1 1 3 2 Sample Output 1 2 32 23 231

```
public class Solution {
        ystem.out.print("YES");
                                                  mat
```

Given a m*n matrix and you are also given an integer x. Each row and column of the matrix is sorted in increasing order. You are required to find x in the matrix and print it's location int (row, col) format as discussed in output format below. In case an element is not found, print "Not Found".

`Note:- Each row is sorted in non-decreasing order.

The first integer of each column is greater than the last integer of the previous column.`

NOTE:- After answering the question, attempt the related question in the linked resource to improve your understanding of the question . Question Link -> https://leetcode.com/problems/search-a-2d-matrix-ii/

Input Format

- 1. First line contains, m and n depicting the size of first matrix.
- 2. m*n Integer values, depicting all the elements of matrix.
- 3.Take a Integer input x , which is to be search.

Constraints

- 1 <= m and n <=1000
- -1000<=mat[i][j]<=1000

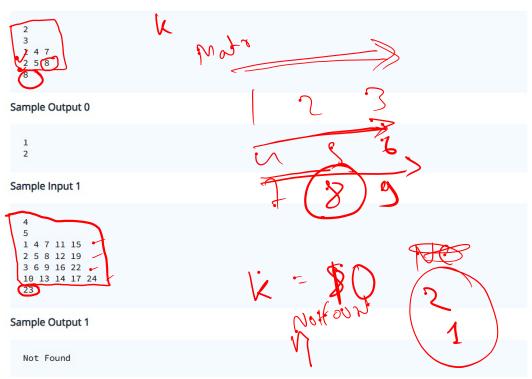
Output Format

Print the row and col index in a **seperate line** if present otherwise print "**Not Found**" without quote.

Output Format

Print the row and col index in a seperate line if present otherwise print "Not Found" without quote.

Sample Input 0



Explanation 1

23 is not found so print "Not Found".

Submitted Code

```
Language: Java 15
 1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
 8
           int row = sc.nextInt();
 9
           int col =sc.nextInt();
10
           int [][] mat = new int[row][col];
11
12
           for(int i=0;i<row;i++){</pre>
13
                for(int j=0;j<col;j++){</pre>
14
                    mat[i][j]=sc.nextInt();
15
16
17
           int k=sc.nextInt();
18
19
           for(int i=0;i<row;i++){</pre>
20
                for(int j=0;j<col;j++){</pre>
21
                    if(mat[i][j]==k){
22
                        System.out.println(i);
23
                        System.out.println(j);
24
                        return;
25
26
27
28
           System.out.print("Not Found");
29
30 }
```

Interchange elements of the **first** and **last** row of a **matrix**.

Input Format

First line contains, M and N depicting the size of matrix.

Second line M * N Integer values, depicting all the elements of matrix.

Constraints

```
1 <= M,N <= 1000
-1000 <= mat[i][j] <= 1000
```

Output Format

Print the matrix after interchanging the row.

Sample Input 0

```
3
8 1 0
9 9 6
6 6 4
```

Sample Output 0

```
6 6 4
9 9 6
8 1 0
```

```
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 1 import java.io.*;
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 4 public class Solution {
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int row = sc.nextInt();
           int col =sc.nextInt();
10
           int [][] mat = new int[row][col];
11
           for(int i=0;i<row;i++){</pre>
12
               for(int j=0;j<col;j++){
13
14
                    mat[i][j]=sc.nextInt();
15
16
17
           for(int i=0;1<col;i++){
18
19
             int first =mat[0][i];
               mat[0][i]=mat[row-1][i];
20
21 22
               mat[row-1][i]=first;
23
24
25
26
27
28
29
30
           for(int i=0;i<row;i++){</pre>
                for(int j=0;j<col;j++){</pre>
                    System.out.print(mat[i][j]+" ");
               }System.out.println();
```