

```
2 public class Main
3 - {
       public static void print1D(int [] arr){
           for(int ele : arr){
               System.out.print(ele + " ");
          System.out.println();
       public static void main(String[] args) {
           int [][] A = \{\{11,12,13,14,15\},
                        {16,17,18,19,20},
                        {21,22,23,24,25}};
           int [] B = \{21,22,23,24,25\};
          // for(int i = 0; i < B.length; i++){</pre>
                  int ele = B[i];
                  System.out.print(ele + " ");
          // System.out.println();
           for(int [] d : A){
               print1D(d);
```

20

Print row wise with condition

Sample Input 0

```
3
3
3 1 2
3 0 2
4 5 4
```

Sample Output 0

```
3 1 2
2 0 3
4 5 4
```

```
6 ▼
            for(int i = 0; i < A.length; i++){</pre>
                System.out.print(A[i] + " ");
 7 *
 8
 9
            System.out.println();
                                                                                             8
10
        public static void r2l(int [] A){
11 🔻
                                                                                            12
                                                                                       11
                                                                               10
12 ▼
            for(int i = A.length-1; i>=0 ; i--){
13 ▼
                System.out.print(A[i] + " ");
14
15
            System.out.println();
                                                                A
16
        public static void main(String[] args) {
17 ▼
                                                           - 0
18
            Scanner scn = new Scanner(System.in);
19
            int m = scn.nextInt();
            int n = scn.nextInt();
20
                                                                                                   8
21 🔻
            int [][] A = new int[m][n];
22 🔻
            for(int i = 0; i < m; i++){
23 🔻
                for(int j = 0; j < n; j++){
24 •
                    A[i][i] = scn.nextInt();
                                                                                                   12
                                                                                     10
25
26
27
            //print
28
            int val = 0;
                                                             val= $X0
            for(int [] d : A){
29 •
30 ▼
                if(val == 0){
                    l2r(d);
31
32 1
                }else{
33
                     r2l(d);
34
35
                val = 1-val;
36
```

0

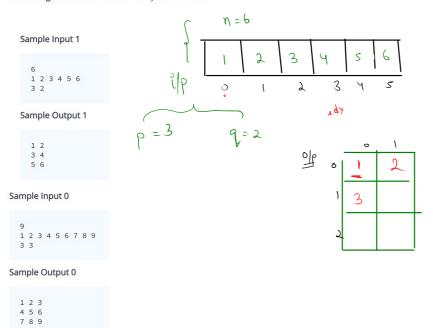
4 public class Solution {

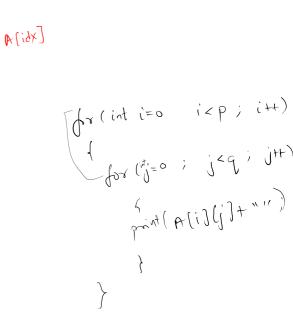
public static void l2r(int [] A){

5

Convert 1-D Array to 2-D Array

Note: It is guaranteed that a 2-D array will be formed





```
public static void main(String[] args) {
                                                         n=6
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int [] A = new int[n];
   for(int i = 0; i < n; i++){
       A[i] = scn.nextInt();
   int p = scn.nextInt();
                                                                        idx=$17$
   int q = scn.nextInt();
   //logic
   int idx = 0;
                                                                  O
   int [][] ans = new int[p][q];
   for(int i = 0; i < p; i++){
                                                                       2
       for(int j = 0; j < q; j++){
                                                      M
           ans[i][j] = A[idx];
                                                                 3
           idx++;
       }
                                                                 5
                                                                       6
   //print
   for(int i = 0; i < p; i++){
       for(int j = 0; j < q; j++){
           System.out.print(ans[i][j] + " ");
       System.out.println();
   }
```

6

8

9

10

11

12 13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28 29

30

31

n unique notate rotate left Kzl K=2 KEK/m

K=0

K=2 n=5 ÍS 10

```
public static void reverse(int [] A, int i, int j){
 6
           //reverse in range
           while(i < j){
 8
               int tmp = A[i];
9
               A[i] = A[j];
               A[j] = tmp;
11
               i++;
12
               j--;
13
           }
14
15
       }
16
17
       public static void rotateLeft(int [] nums, int k){
18
           int n = nums.length;
19
           k = k \% n;
20
           reverse(nums, 0, k-1);
21
           reverse(nums, k, n-1);
22
           reverse(nums, 0, n-1);
23
24
       public static void main(String[] args) {
25
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
26
27
           int [][] A = new int[n][n];
28
           for(int i = 0; i < n; i++){
29
               for(int j = 0; j < n; j++){
30
                   A[i][j] = scn.nextInt();
31
32
33
                                                  //print
                                        38
34
           int k = scn.nextInt();
                                        39
                                                  for(int [] d : A){
35
           for(int [] d : A){
                                        40
                                                      for(int e : d){
36
               rotateLeft(d, k);
                                        41
                                                          System.out.print(e + " ");
37
                                        42
                                        43
                                                      System.out.println();
                                        44
                                        45
```

46 }

You are

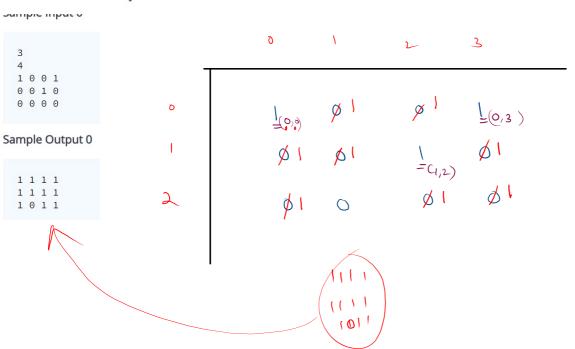
4 public class Solution {

Modify The Matrix

Once upon a time, there was a company that was developing a system to track the inventory levels of different products in different warehouses. They had a boolean matrix Mat of size M X N, where each cell represented the availability of a product in a specific warehouse. If the value of a cell was true (or 1), it meant that the product was available in that warehouse.

The company wanted to modify the matrix in such a way that if a cell, Mat[i][j], was true, then all cells in the ith row and jth column of the matrix would also be set to true. This would ensure that if a product was available in a particular warehouse, all the products in that row and column would also be considered available.

Can you write a program thet modify the matrix such that if a matrix cell **Mat[i][j]** is **1 (or true)** then make all the cells of **ith row** and **jth column** as **1**.



logic

logic

$$2 - 1D - Array$$
 $1 \rightarrow mus \rightarrow R$
 $1 \rightarrow mis \rightarrow R$
 1

```
2 import java.util.*;
 4 public class Solution {
 6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           int m = scn.nextInt();
9
           int n = scn.nextInt();
10
           int [][] A = new int[m][n];
           for(int i = 0; i < m; i++){
11
12
               for(int j = 0; j < n; j++){
13
                   A[i][j] = scn.nextInt();
14
15
16
           //logic
17
           int [] R = new int[m];
18
           int [] C = new int[A[0].length];
19
           for(int i = 0; i < m; i++){
20
               for(int j = 0; j < n; j++){
21
                   if(A[i][i] == 1){
22
                       R[i] = 1;
23
                       C[i] = 1:
24
25
26
27
28
           for(int i = 0; i < m; i++){
29
               for(int j = 0; j < n; j++){
30
                   if(R[i] == 1 || C[i] == 1){
31
                       A[i][i] = 1;
32
33
34
```

1 import java.io.*;

You are screen sharing

```
if(R[i] == 1 || C[j] == 1){
30
31
                       A[i][j] = 1;
32
33
34
35
36
37
38
           for(int i = 0; i < m; i++){
39
40
               for(int j = 0; j < n; j++){
                    System.out.print(A[i][j] + " ");
41
42
43
               System.out.println();
44
45
       }
46 }
```