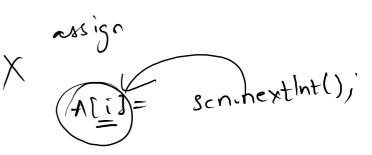
```
public static void main(String[] args) {
            int [] A = \{1,2,3,4,5,6\};
            for(int i = 0; i < A.length; <math>i++){
                int ele = A[i];
                System.out.print(ele + " ");
            System.out.println();
            for(int ele : A){
14
                System.out.print(ele + " ");
            String [] B = {"abc", "def", "ghi"};
            for(String s : B){
                System.out.print(s + " ");
```



```
2 public class Main
       public static void main(String[] args) {
           int [][] A = \{\{1,2,3\}, \{4,5,6\}, \{7,8,9\}\};
               System.out.println();
           for(int [] d : A){
               for(int e : d){
                    System.out.print(e + " ");
                     ..out.println();
      3
```

innu

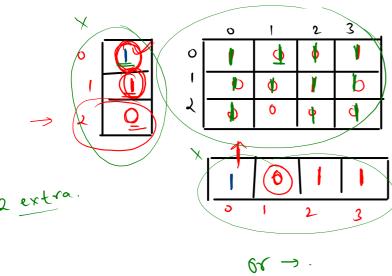
Modify The Matrix

Problem Submissions Leaderboard Discussions

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.

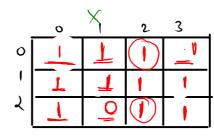
Can you write a program thet modify the matrix such that if a matrix cell **Mat[1][j]** is **1 (or true)** then make all the cells of **ith row** and **ith column** as **1**.



Sample Input 0

Sample Output 0

1	1	1	1
1	1	1	1
1	0	1	1



(2,)0	
_	

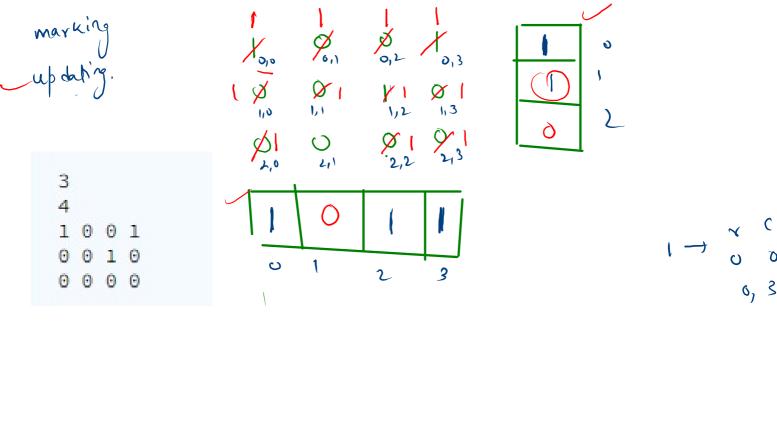


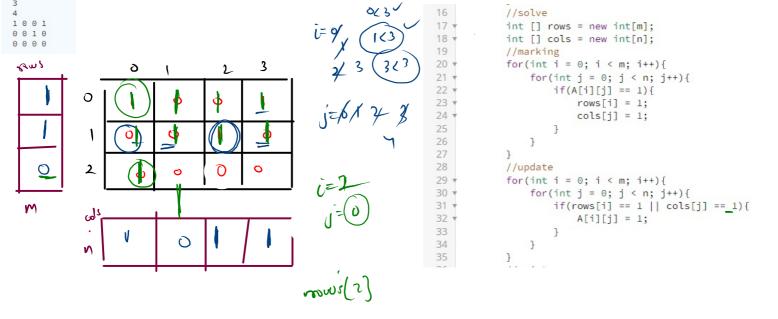


$$(2)$$
3

for (i=0 -- ien; i+t) for (j=0; jem; j+t)

marking./ujodate





```
1 vimport java.io.*;
   import java.util.*;
 3
4 *public class Solution {
 5
6 +
        public static void main(String[] args) {
 7
            Scanner scn = new Scanner(System.in);
8
            int m = scn.nextInt():
9
            int n = scn.nextInt();
10 +
            int [][] A = new int[m][n];
11 +
            for(int i = 0; i < m; i++){
12 +
                for(int j = 0; j < n; j++){
13 +
                    A[i][j] = scn.nextInt();
14
15
16
            //solve
17 +
            int [] rows = new int[m];
18 *
            int [] cols = new int[n];
19
            //marking
20 +
            for(int i = 0; i < m; i++){
21 +
                for(int j = 0; j < n; j++){
22 1
                    if(A[i][i] == 1){
23 *
                        rows[i] = 1;
24 +
                        cols[j] = 1;
25
26
```

```
28
            //update
29 +
            for(int i = 0; i < m; i++){
30 +
                for(int j = 0; j < n; j++){
31 +
                    if(rows[i] == 1 || cols[j] == 1){
32 +
                        A[i][j] = 1;
33
34
35
36
            //print
37 +
            for(int i = 0; i < m; i++){
38 *
                for(int j = 0; j < n; j++){
39 +
                    System.out.print(A[i][j] + " ");
40
41
                System.out.println();
42
43
44
45
46
47
48
49 }
```

Shift Matrix Row-Wise

Problem Submissions Leaderboard Discussions

Once upon a time, there was a group of students who were working on a project to design a gaming platform. They had a 2D grid of W N size which represented the game board. Each cell of the grid had some data associated with it.

One day, they encountered a problem where they had to skift the elements of the grid row-wise in clock wise direction by a certain number of positions. k This was necessary to create a more interesting and challenging gaming experience for their users.

The students decided to write a java program to solve this problem. They came up with an algorithm to shift the elements of the grid row-wise by k positions. After implementing the algorithm, they were able to shift the elements of each row by k positions.

Write a program that shift each row of matrix by k.



N=3.

0 5 2 7 5 2 3

Sample Input 0

0 5

0 5 9 2 7 5 2 3 3

Sample Output 0

9 0 5 5 2 7

3 2 3

0

(K=2)

0 8

→

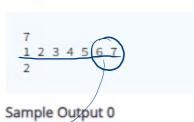
O

45123

k= 2. K=3

3 45 12

Sample Input 0



6712345





3217654

4567123)

k=4

Rotate left

K=3

$$\frac{1}{34567}$$

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void reverse(int [] d, int i, int j){
           while(i < j){
 8
               int tmp = d[i];
 9
               d[i] = d[j];
               d[j] = tmp;
               i++;
               j--;
14
       }
16
       public static void rotate(int [] d, int k){
18
           //roatate left
           int n = d.length;
20
           k = k \% n;
21
           reverse(d, 0, k-1);
           reverse(d, k , n-1);
           reverse(d, 0, n-1);
24
```

```
27
       public static void main(String[] args) {
28
           Scanner scn = new Scanner(System.in);
29
           int n = scn.nextInt();
30
           int [][] A = new int[n][n];
31
           for(int i = 0; i < n; i++){
32
               for(int j = 0; j < n; j++){
33
                   A[i][j] = scn.nextInt();
34
35
36
           int k = scn.nextInt();
37
38
           //logic
39
           for(int [] d : A){
40
               rotate(d, k);
41
42
43
           //print
44
          for(int i = 0; i < n; i++){
45
               for(int j = 0; j < n; j++){
46
                   System.out.print(A[i][j] + " ");
47
48
              System.out.println();
49
50
51 }
```

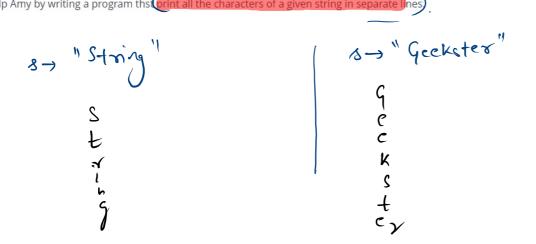
25

Print Characters

Amy is a high school student who is passionate about coding. One day, her computer science teacher gives the class an assignment to print all the characters of a given string in separate lines.

Amy immediately gets to work and writes a simple program. However, she feels that her solution is too basic and wants to find a more efficient way to solve the problem.

can you help Amy by writing a program that print all the characters of a given string in separate lines.



Sample Input 0

String

Sample Output 0

S

```
1 import java.io.*;
2 import java.util.*;
```

public static void main(String[] args) {

String s = scn.next();

Scanner scn = new Scanner(System.in);

for(int i = 0; i < s.length(); i++){
 System.out.println(s.charAt(i));</pre>

4 public class Solution {

13 }

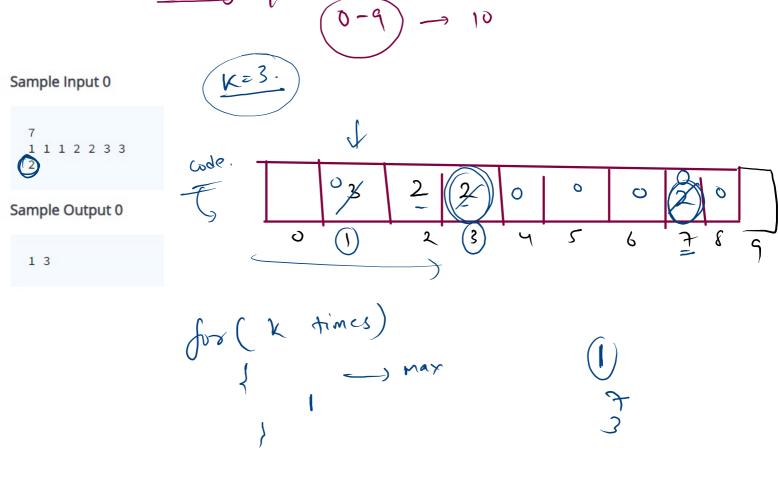
0 6 4

ideally first -> dry run -> Amm's code.

2nd -> write by jourself

3nd -> try Hw

yisit A if possible try,



K - most

$$|2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |2-3/45| |$$

BX 10 len-K + A |

K=-2

123/45