Shift Matrix Row-Wise

Problem | Submissions | Leaderboard | Discussions

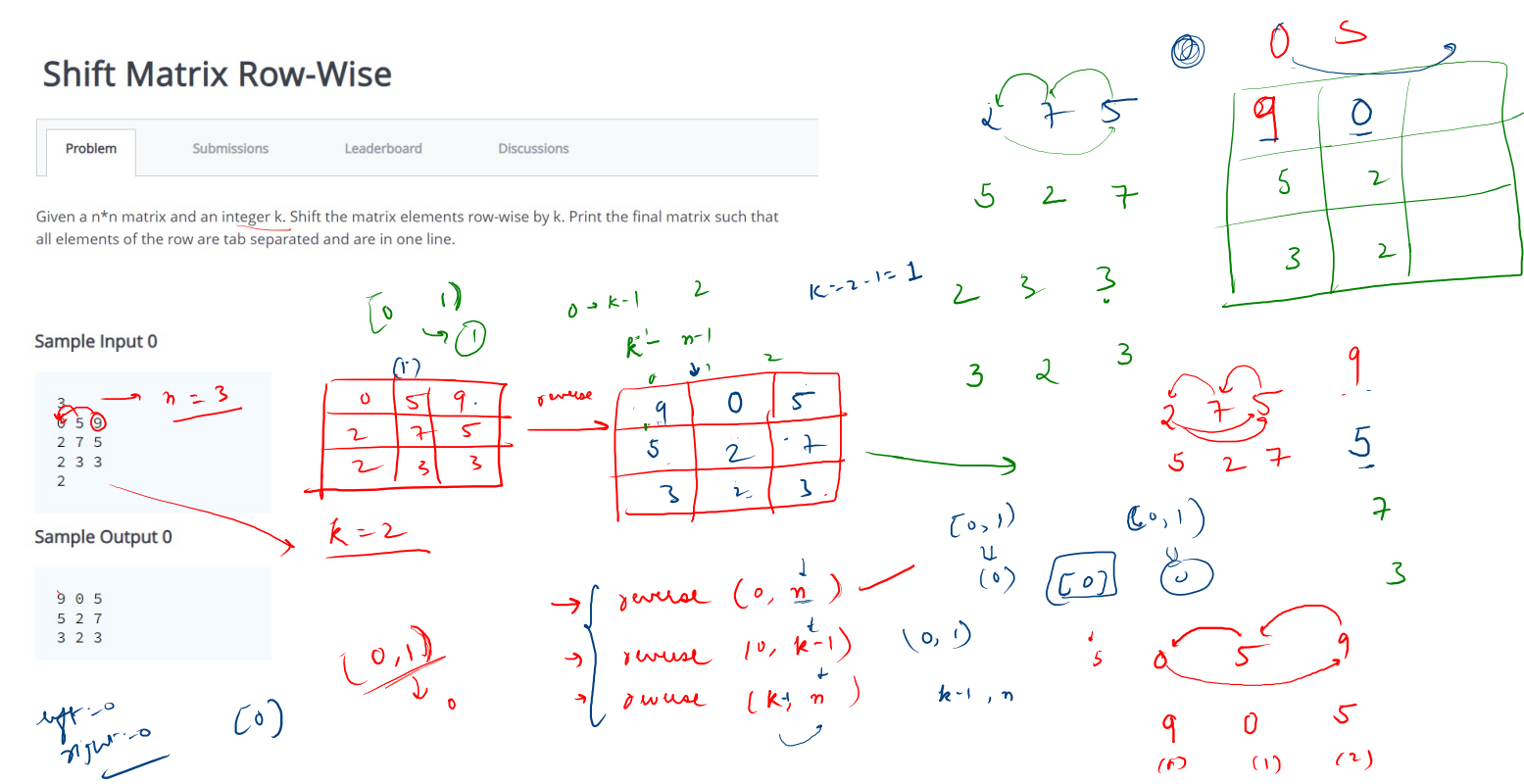
Given a n*n matrix and an integer k. Shift the matrix elements row-wise by k. Print the final matrix such that all elements of the row are tab separated and are in one line.

Sample Input 0

```
3
9 5 0
2 7 5
2 3 3
2
```

Sample Output 0

```
9 0 5
5 2 7
3 2 3
```



Given a ~~boolean~~ matrix mat[M][N] of size M X N, modify it 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.

Input Format

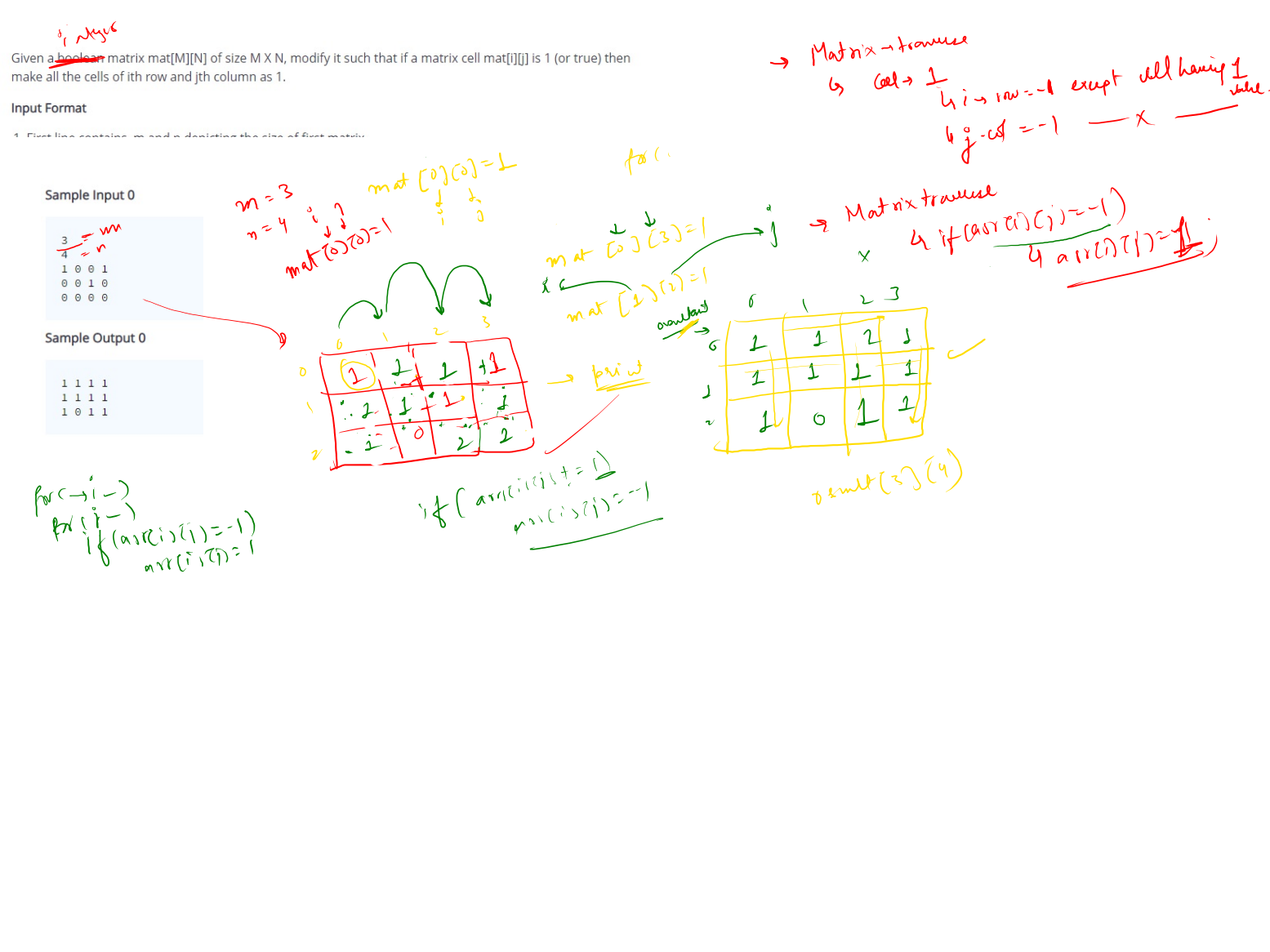
1. First line contains m and n depicting the size of first matrix

Sample Input 0

```
3
4
1 0 0 1
0 0 1 0
0 0 0 0
```

Sample Output 0

```
1 1 1 1
1 1 1 1
1 0 1 1
```



```java
public static void fillwithminus1(int arr[][],int row,int col ){

    int m=arr.length;
    int n=arr[0].length;

//          row
    for(int j=0;j<n;j++){
        if(arr[row][j]!=1){
            arr[row][j]=-1;
        }
    }

//          col

    for(int i=0;i<m;i++){
        if(arr[i][col]!=1){
            arr[i][col]=-1;
        }
    }

}
```

1

```java
public static void modifyTheMatrix(int arr[][]){
    int m=arr.length;
    int n=arr[0].length;

    for(int i=0;i<m;i++){
        for(int j=0;j<n;j++){
            if(arr[i][j]==1){
                fillwithminus1(arr,i,j);
            }
        }
    }

    for(int i=0;i<m;i++){
        for(int j=0;j<n;j++){
            if(arr[i][j]==-1){
                arr[i][j]=1;
            }
        }
    }


    for(int i=0;i<m;i++){
        for(int j=0;j<n;j++){
            System.out.print(arr[i][j]+" ");
        }
        System.out.println();
    }
}
```

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```java
public static void main(String[] args) {
    /* Enter your code here. Read input from
    Scanner scn=new Scanner(System.in);
    int m=scn.nextInt();
    int n=scn.nextInt();

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

    for(int i=0;i<m;i++){
        for(int j=0;j<n;j++){
            arr[i][j]=scn.nextInt();
        }
    }

    modifyTheMatrix(arr);
}
```

3

Rotation Check In Matrix

Problem | Submissions | Leaderboard | Discussions

Check whether all rows of a matrix are circular rotations of each other.

Given a matrix of n*n size, the task is to find whether all rows are circular rotations of each other or not.

Sample Input 0

```
3
1 2 3
3 1 2
2 3 1
```

Sample Output 0

```
YES
```

Sample Input 1

```
3
1 2 3
3 2 1
1 3 2
```

Sample Output 1

```
NO
```