Print row wise with condition

hows with even index print left to sight nows with odd index print reight to left aur[i] on (3

observation

whenever printing

directly then it is

m = 5 // your

n = 4 // ods

for (int i=0; i< m; i++) { $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 2 = 0 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 2 = 0 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5} \left(i \% 3 \right) \frac{\xi}{5}$ $\int_{-\infty}^{\infty} \frac{1}{3} \left(i \% 3 \right) \frac{\xi}{5} \left(i$ for (înt j=n+; j>=0; j--){

Syso (aun [i][j]+" "); 1 plse ?

T. (=)(m+n)

```
Correct code works everywhere
```

$$T.C = O\left(\frac{m * n}{2}\right) \stackrel{\sim}{=} O\left(m * n\right)$$

```
public static int[][] printRowwiseWithCondition(int[][] arr, int m, int n) {
   for (int i = 0; i < m; i++) {
          _while ( si < ei ) {
             swap(arr[i], si, ei);
   return arr;
                                                                લે
public static void swap(int[] arr, int si, int ei) {
   int temp = arr[si];
   arr[si] = arr[ei];
   arr[ei] = temp;
```

Convert 1-D Array to 2-D Array

$$0.001d = 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15$$

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$$\frac{1}{2} = \frac{1}{2} = \frac{3}{3} = \frac{4}{5}$$

$$\frac{1}{6} = \frac{7}{7} = \frac{8}{9} = \frac{9}{10}$$

$$\frac{1}{2} = \frac{1}{12} = \frac{13}{14} = \frac{14}{15}$$

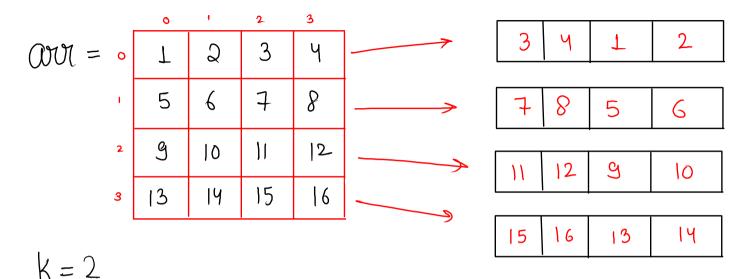
- under of index of linder of 1d avorag = idre index of 2d avorag = i kj 20 array 1d array v.v.gmp i = idx/9;j = idx 709; find index of 2d array using 1d $id\chi = i \times 9 + i$ find index of 1d using 2d

```
Code
```

1d to 2d

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr1d = new int[n];
    for (int i = 0; i < n; i++) {
        arr1d[i] = scn.nextInt();
    int p = scn.nextInt();
    int q = scn.nextInt();
    int[][] arr2d = convert1dto2d(arr1d, n, p, q);
    for (int i = 0; i < p; i++) {
        for (int j = 0; j < q; j++) {
            System.out.print(arr2d[i][j] + " ");
        System.out.println();
    }
public static int[][] convert1dto2d(int[] arr1d, int n, int p, int q) {
    int[][] arr2d = new int[p][q];
   for (int idx = 0; idx < n; idx++) {
                                               Note: fill ide of 1d wordy
        int i = idx / q;
        int j = idx % q;
                                                        into (i, j) of 2d avoicey
        arr2d[i][j] = arr1d[idx];
    return arr2d;
```

Shift Matrix Row-Wise



$$k=0$$
 $\frac{1}{1}$ $\frac{2}{2}$ $\frac{3}{4}$ $\frac{4}{1}$ $\frac{2}{2}$ $\frac{3}{2}$ $\frac{4}{1}$ $\frac{2}{2}$ $\frac{3}{2}$ $\frac{4}{1}$ $\frac{2}{2}$

code

```
public static void shiftMatrixRowwise(int[][] arr, int n, int k) {
    k = -1 * k; // to submit question
    for (int i = 0; i < n; i++) {
        k = k + n;
        k = k \% n;
        reverse(arr[i], n - k, n - 1);
        reverse(arr[i], 0, n - k - 1);
        reverse(arr[i], 0, n - 1);
    // print
   for (int i = 0; i < n; i++) {
        for (int j = 0; j < n; j++) {
            System.out.print(arr[i][j] + " ");
        }
        System.out.println();
}
public static void reverse(int[] arr, int i, int j) {
   while (i < j) {
        swap(arr, i, j);
       j++;
       j--;
public static void swap(int[] arr, int x, int y) {
   int temp = arr[x];
   arr[x] = arr[y];
    arr[y] = temp;
}
```