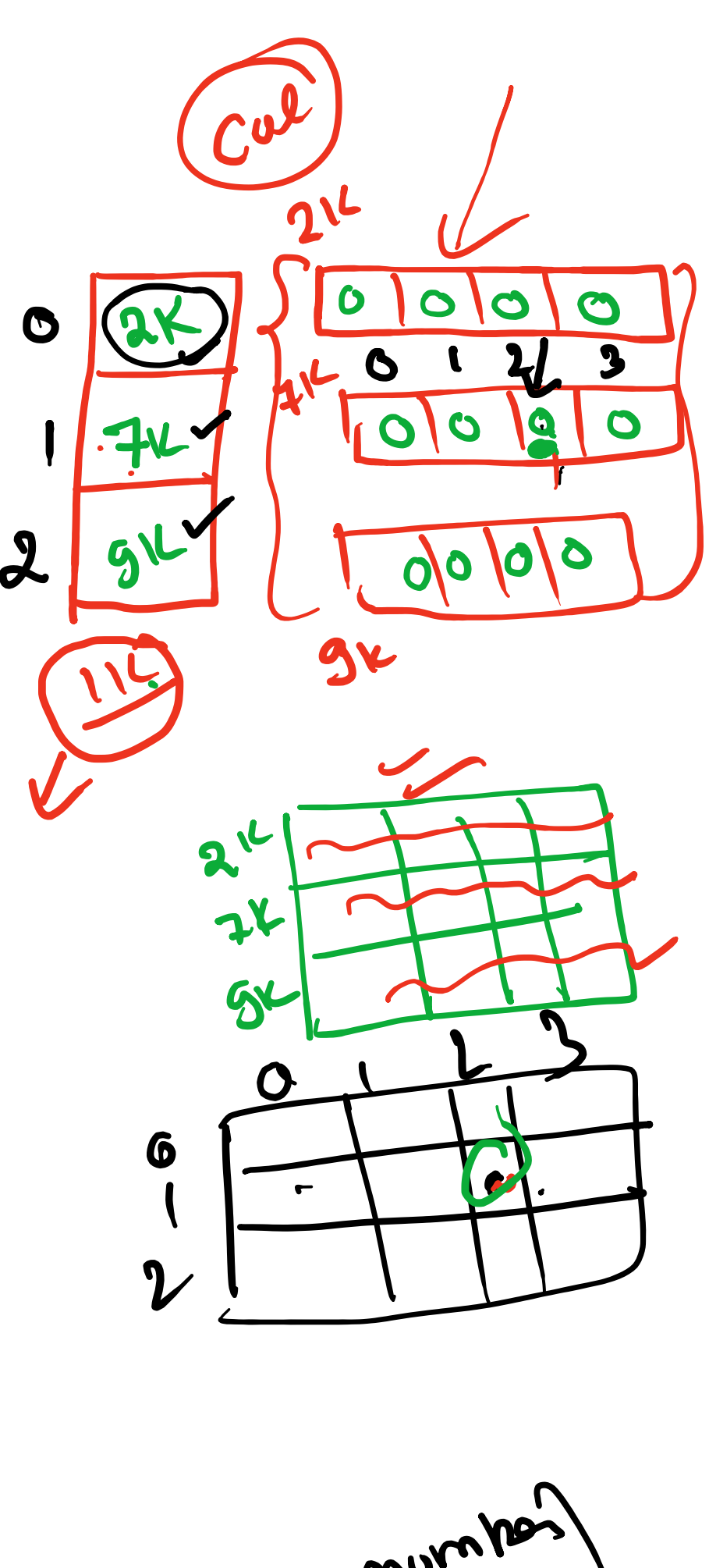
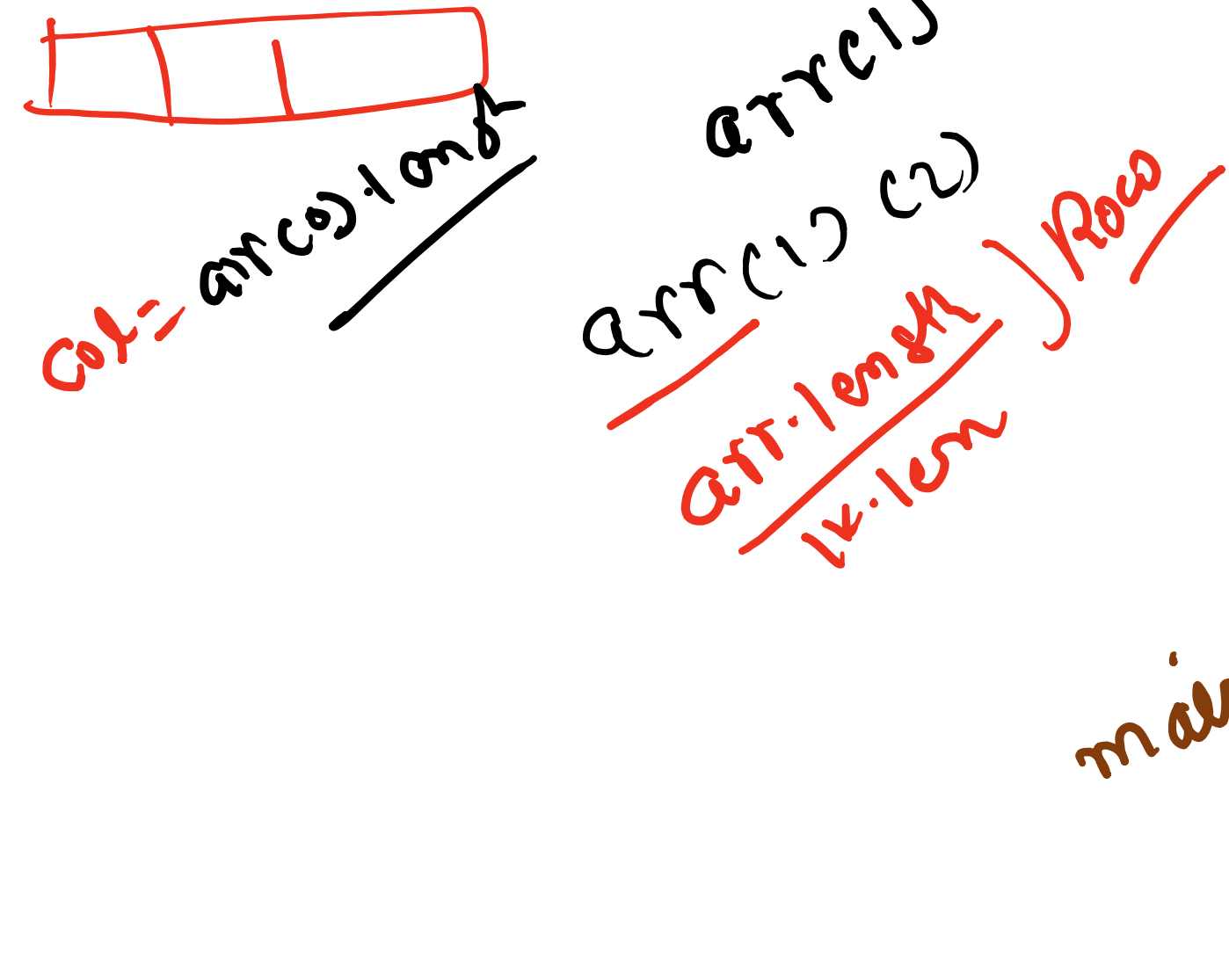
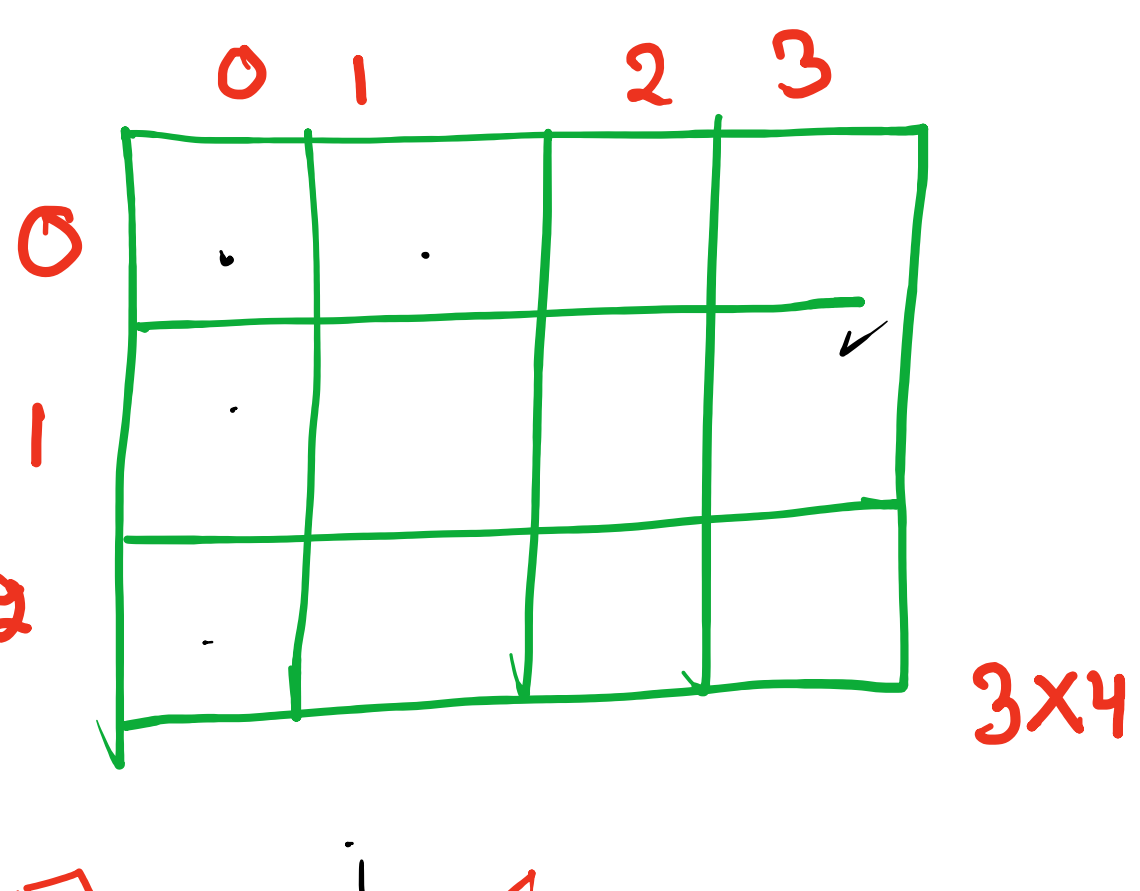


20 → Contn

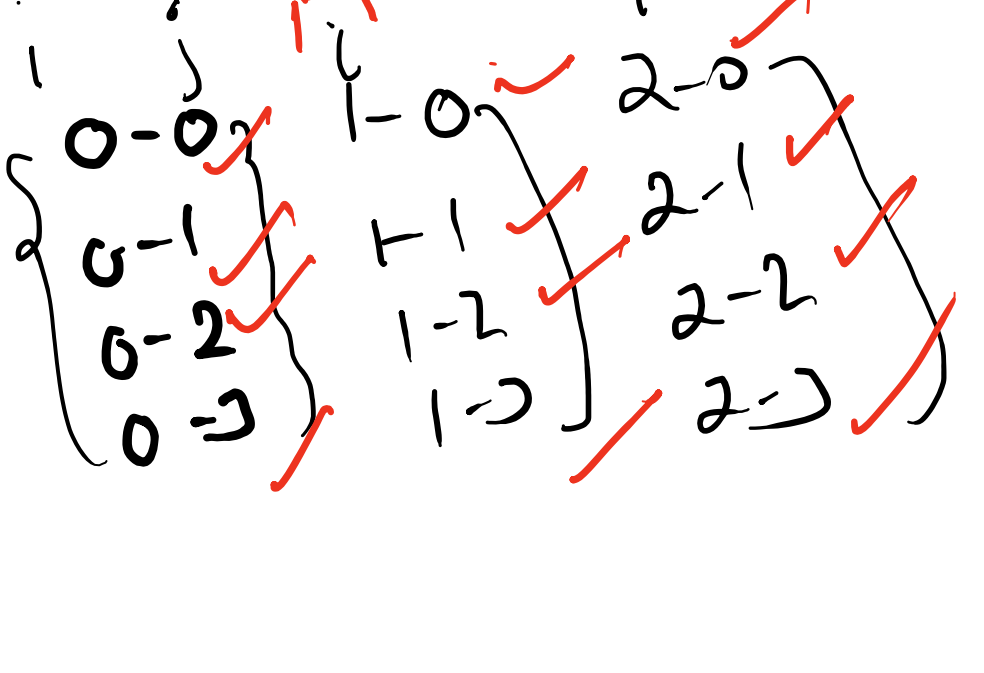
```
public static void main(String[] args) {  
    // TODO Auto-generated method stub  
    int[][] arr = new int[3][4];  
}
```



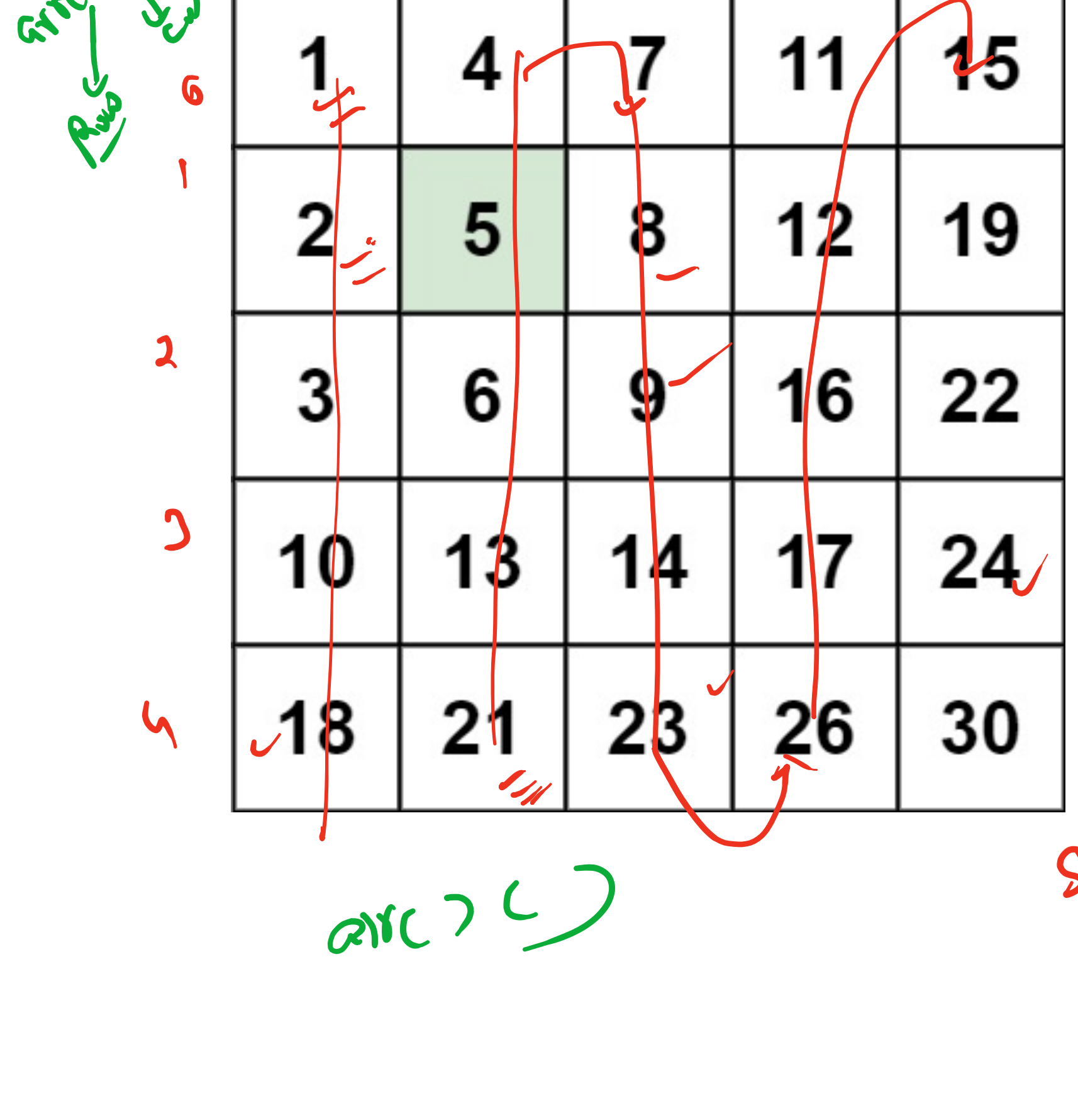
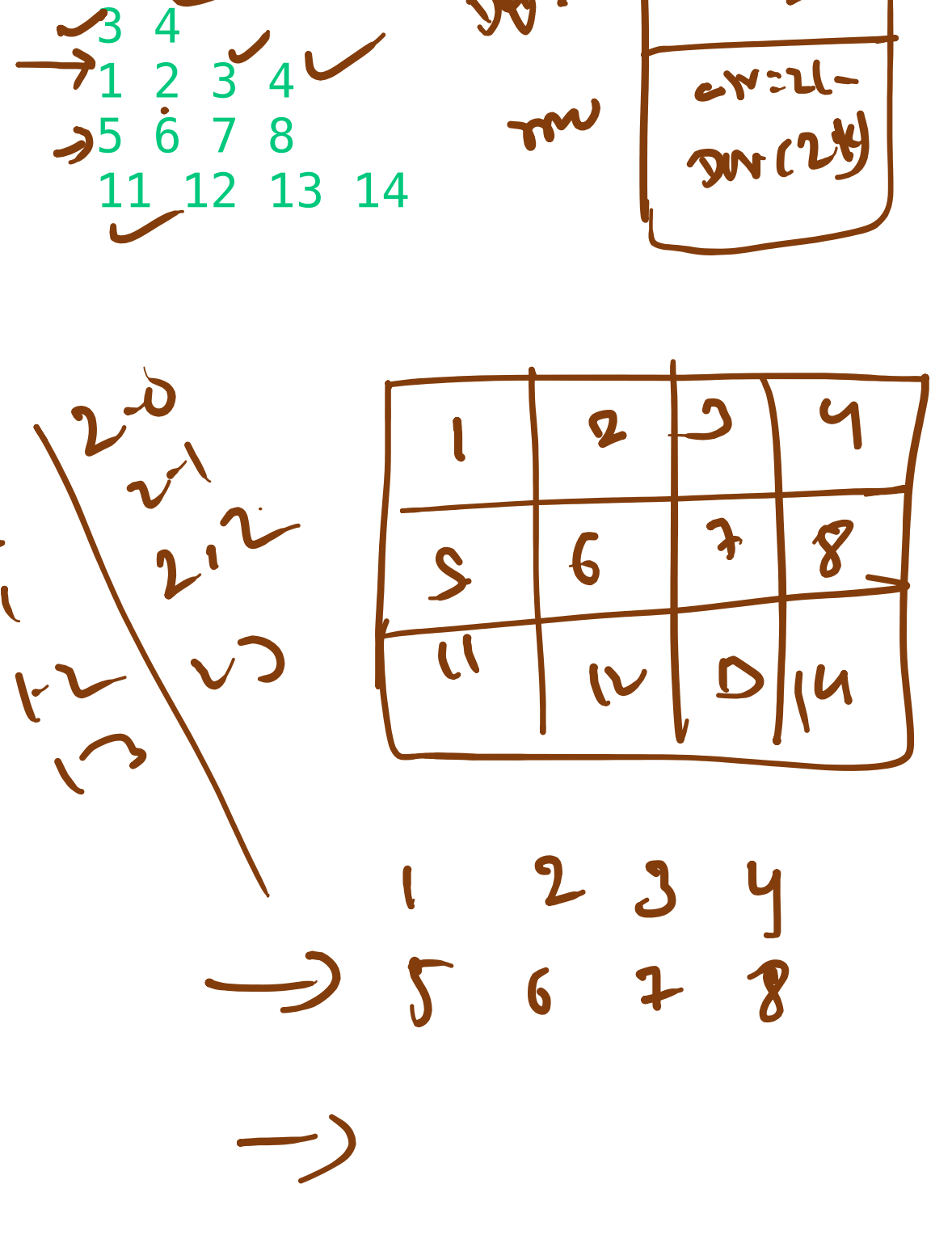
int c[] c[] arr = new int c[] c[] =
1+N
System Total number
1D array



for (i=0; i<arr.length; i++)
for (j=0; j<arr[0].length; j++)
arr[i][j] = sc.nextInt();
System.out.println(arr[i][j]);



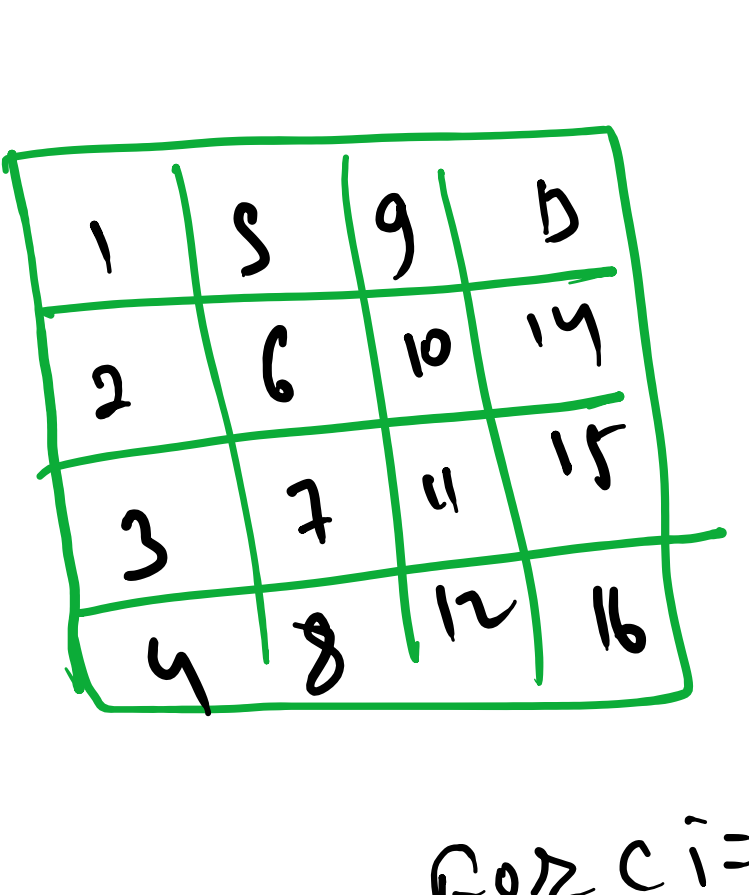
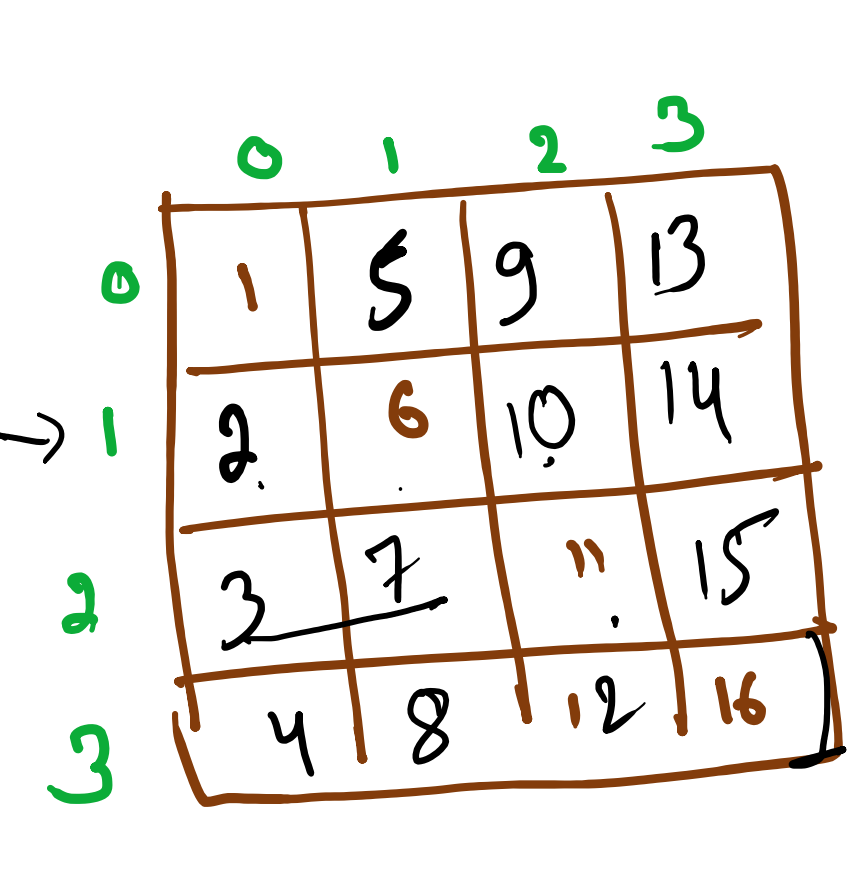
```
public class User_Input {  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        Scanner sc = new Scanner(System.in);  
        int n = sc.nextInt(); // row  
        int m = sc.nextInt(); // col  
        int[][] arr = new int[n][m];  
        for (int i = 0; i < arr.length; i++) {  
            for (int j = 0; j < arr[0].length; j++) {  
                arr[i][j] = sc.nextInt();  
            }  
        }  
        Display(arr);  
    }  
    public static void Display(int[][] arr) {  
        // TODO Auto-generated method stub  
        for (int i = 0; i < arr.length; i++) {  
            for (int j = 0; j < arr[0].length; j++) {  
                System.out.print(arr[i][j] + " ");  
            }  
            System.out.println();  
        }  
    }  
}
```



1 2 3 10 18 21 13 6 5 4 7 8 9 14 23
26 17 16 12 11 15 19 22 24 30
for (i=0; i<arr.length; i++)
for (j=0; j<arr[0].length; j++)
arr[i][j] = sc.nextInt();
System.out.println(arr[i][j]);

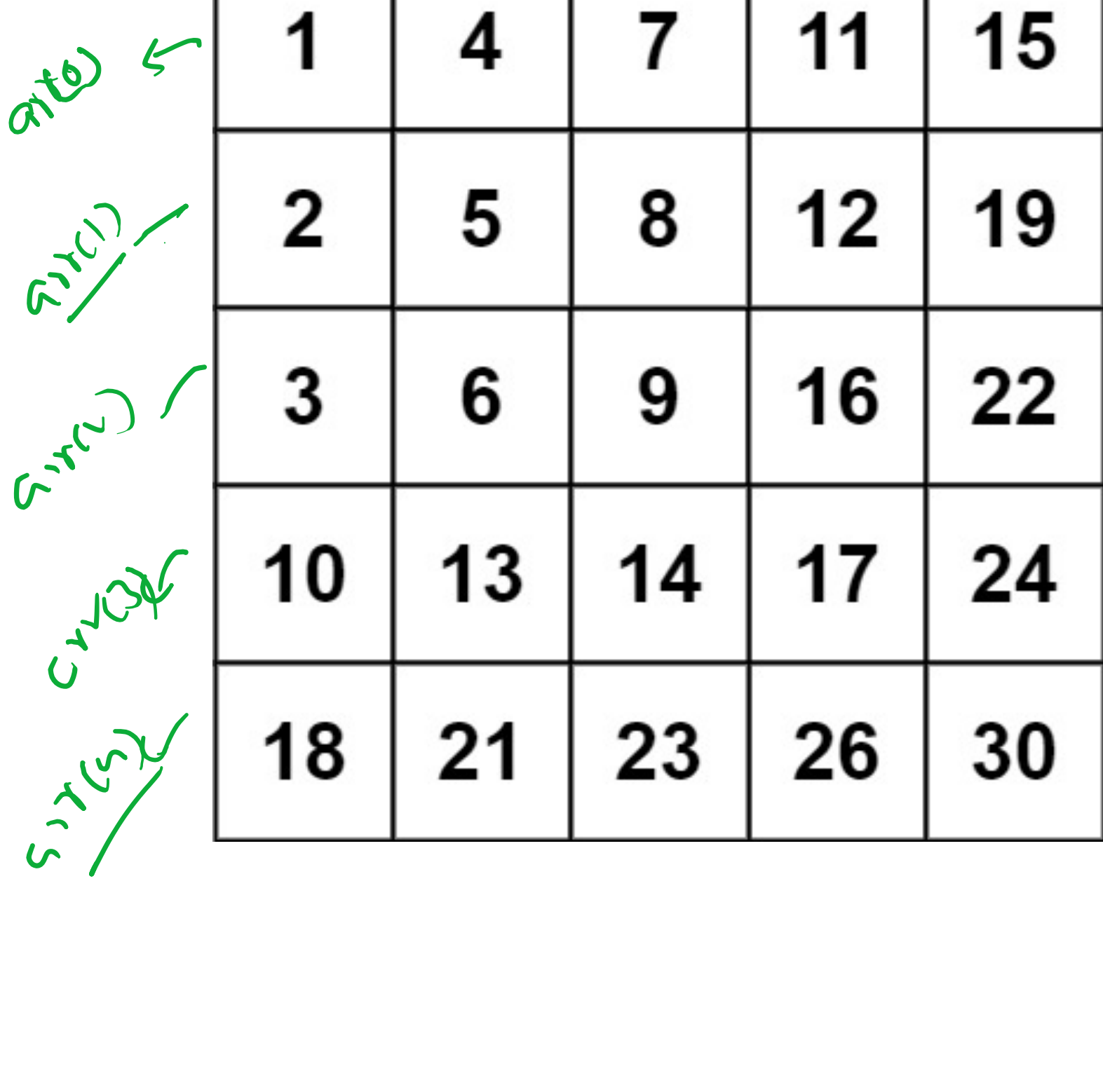


0-1 → 1,0
0-2 → 2,0
0-3 → 3,0
1-2 → 2,1
1-3 → 3,1
2-3 → 3,2
3,4



Row/Col
Col/Row

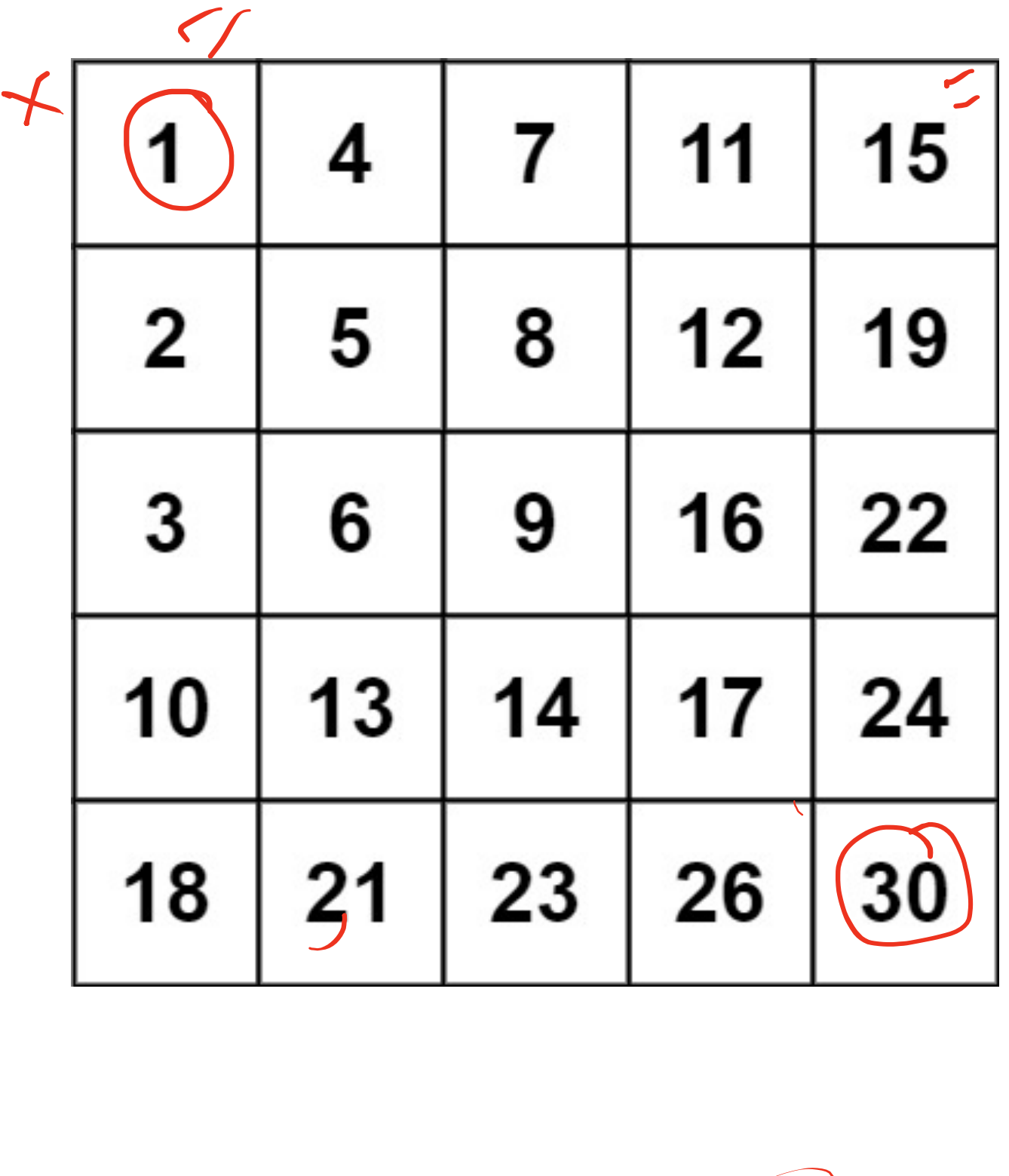
for (i=0; i<arr.length; i++)
for (j=0; j<arr[0].length; j++)
arr[i][j] = sc.nextInt();
System.out.println(arr[i][j]);



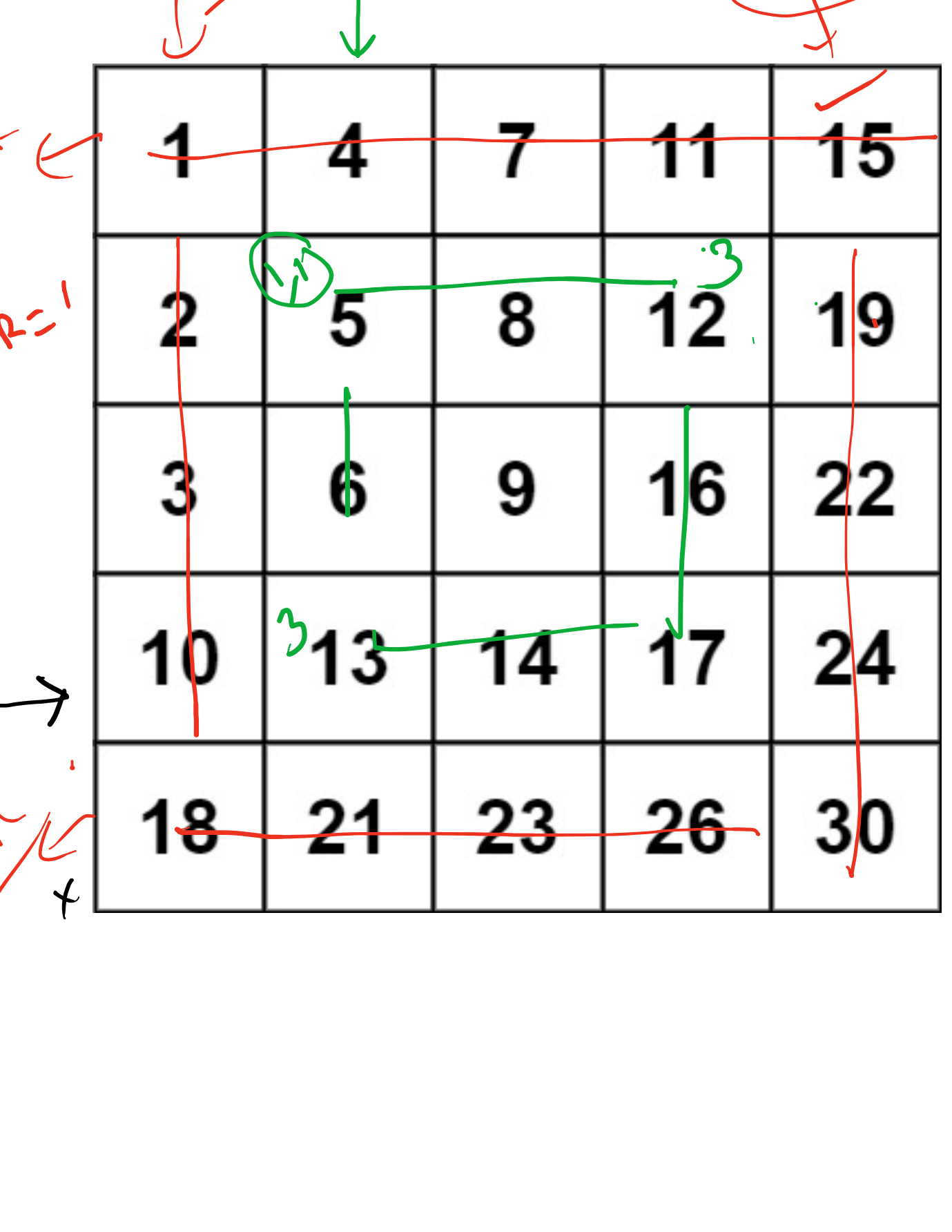
for (i=0; i<arr.length; i++)
for (j=0; j<arr[0].length; j++)
arr[i][j] = sc.nextInt();
System.out.println(arr[i][j]);



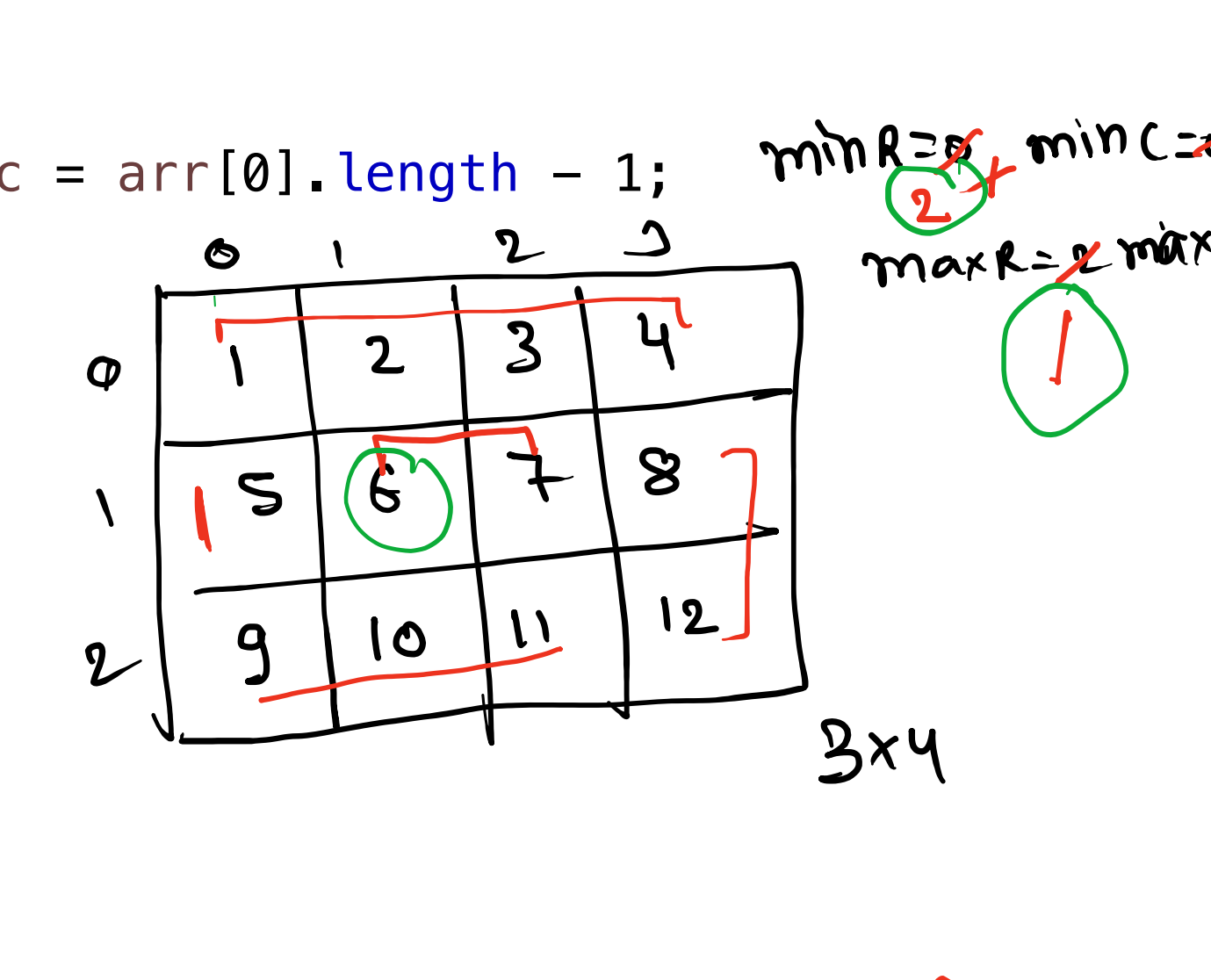
Stair-case
row=0 col=arr[0].length-1
while (row<arr.length & col>=0) {
 if (arr[row][col] == 1) {
 row++;
 } else {
 col--;
 }
}



min=0 max=0 maxR=4 maxC=4
1 4 7 11 15 19 22 24 30 26 23 21 18 10 3 2 5 8 12
16 17 14 13 6 9
for (i=min; i<max; i++)
for (j=min; j<max; j++)
arr[i][j] = sc.nextInt();
System.out.println(arr[i][j]);



```
public static void Print(int[][] arr) {  
    int minr = 0, minc = 0, maxr = arr.length - 1, maxc = arr[0].length - 1;  
    int te = arr.length * arr[0].length;  
    int c = 0;  
    while (c < te) {  
        for (int i = minr; i <= maxr; i++) {  
            System.out.print(arr[i][minc] + " ");  
            c++;  
        }  
        minr++;  
        for (int i = minr; i <= maxr; i++) {  
            System.out.print(arr[i][maxc] + " ");  
            c++;  
        }  
        maxc--;  
        for (int i = maxc; i >= minc; i--) {  
            System.out.print(arr[i][maxr] + " ");  
            c++;  
        }  
        maxr--;  
        for (int i = maxr; i >= minr; i--) {  
            System.out.print(arr[i][minc] + " ");  
            c++;  
        }  
        minc++;  
    }  
}
```



1 2 3 4 8 2 11 10 9 5 6 7 6