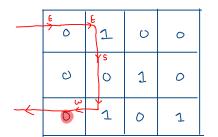
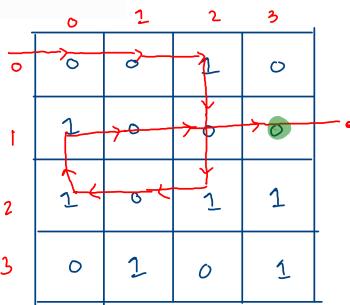
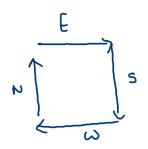
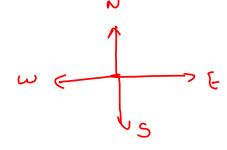
exit point

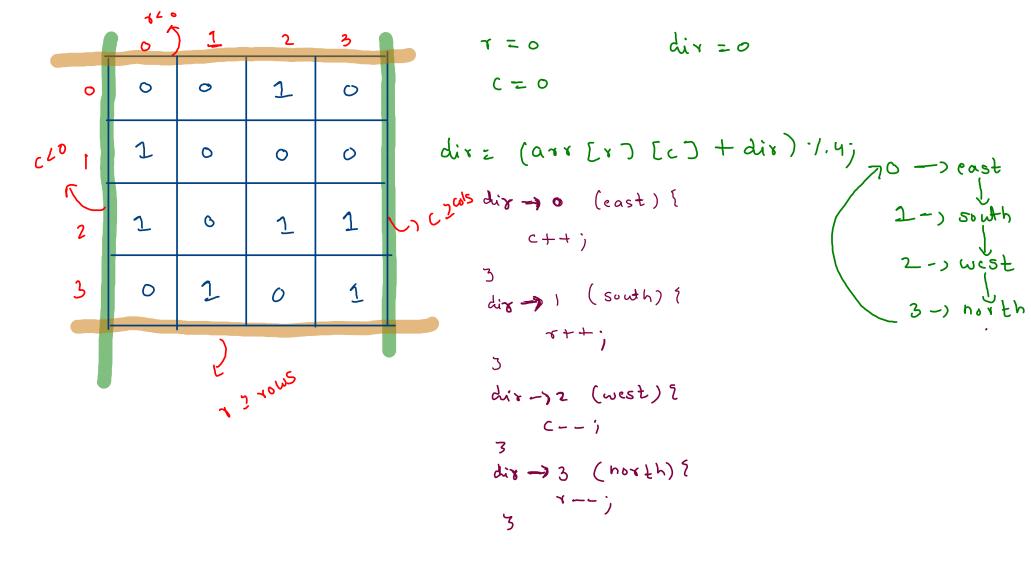
- 1. You are given a number n, representing the number of rows.
- 2. You are given a number m, representing the number of columns.
- 3. You are given n*m numbers (1's and 0's), representing elements of 2d array a.
- 4. Consider this array a maze and a player enters from top-left corner in east direction.
- 5. The player moves in the same direction as long as he meets '0'. On seeing a 1, he takes a 90 deg right turn.
- 6. You are required to print the indices in (row, col) format of the point from where you exit the matrix.

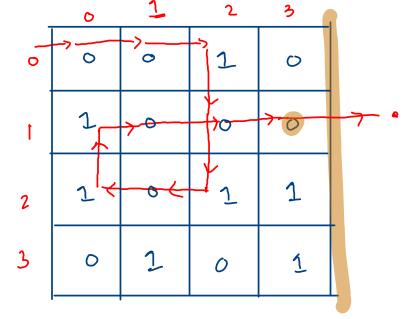








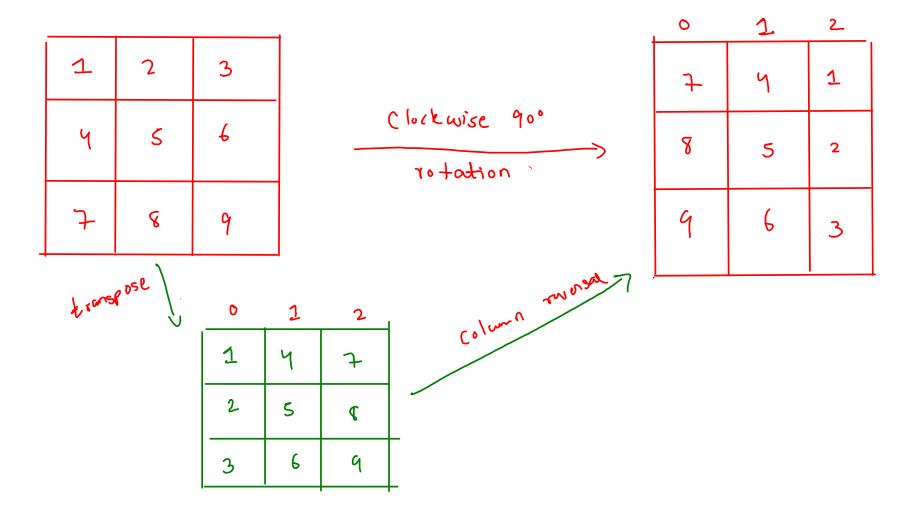




```
while(r >= 0 && r < mat.length && c >= 0 && c < mat[0].length) {
    dir = (mat[r][c] + dir) % 4;
    if(dir == 0) {
        //east -> right
        c++;
    }
    else if(dir == 1) {
        //south -> down
        r++;
    }
    else if(dir == 2) {
        //west -> left
        c--;
    }
    else {
        //north -> top
        r--;
    }
}
```

)=x, (=xxx xxx xxx 4

div= 0



$$i=0$$
 | $j=0,1,2$ (0,0)(0,1),(6,2)
 $i=1$ | $j=1,2$ (1,1)(1,2)
 $i=2$ | $j=2$ (2,2)

```
for(int i=0; i < mat.length;i++) {
    for(int j=i; j < mat.length;j++) {
        //swap(mat[i][j], mat[j][i])
        int temp = mat[i][j];
        mat[i][j] = mat[j][i];
        mat[j][i] = temp;
    }
}</pre>
```

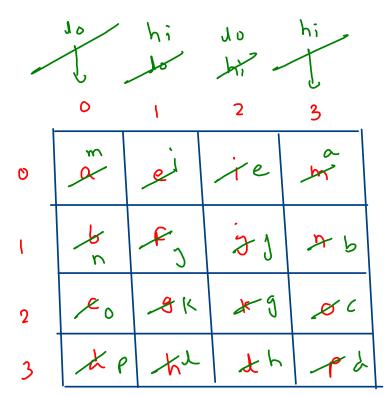
0

Column runsal

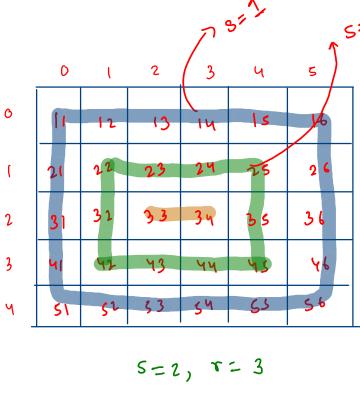
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e	3	9	h			n			3	له
'n		اد	1			7)	k	9	C
M	n	٥	P				P	u	h	٤
Kienerse			a	e		m			(o)	
			Ь	1	<u>j</u>	n				
			С	9	۲	0				
			٨	h	ı	P				

```
public static void columnReversal(int[][]mat) {
    int n = mat.length;
    int lo = 0;
    int hi = n-1;

    while(lo < hi) {
        //swap lo col with hi col
        for(int i=0; i < n;i++) {
            int temp = mat[i][lo];
            mat[i][lo] = mat[i][hi];
            mat[i][hi] = temp;
        }
        lo++;
        hi--;
    }
}</pre>
```



sing rotaxe (2 O O SI 5=2, r=3



2. rotate array r

3. Jill 5=2 with 1d away

1. Jill 1d away with S=2 of matrix

25 35 45 44 24 - - 43 23 22 32 42

