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Utility codes for quick start ([https://helpcenter.mymapit.in/?page\\_id=871](https://helpcenter.mymapit.in/?page_id=871))

## Section - 1

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# Matrix Operation

Chaitanya has a matrix containing all 1 except one position(i,j) where  $A[i][j] = 0$ . He wants to set all the elements of the ith row to 0. He is not able to do it. Help him to perform this task.

## Input:

The first line contains two integers: N and M. N and M are the number of rows and columns of the matrix.

Every next line of n lines is a row of the matrix of size N\*M.

## Constraints:

$1 \leq N, M \leq 1000$

$0 \leq A[i][j] \leq 1$

It is guaranteed that there will be only one cell having 0.

Note: During output printing, there is a space between elements and there is no space before the first element.

## Output:

C (gcc 4.8.3) ▼



▶ Compile & Run

O/P »

```

5 // input
6 int rowSize;
7 int colSize;
8 scanf("%d%d",&rowSize,&colSize);
9
10 // while taking input in matrix, whenever a cell has val 0, that is our
11 int targetRow = 0;
12 int matrix[rowSize][colSize];
13
14 int i,j;
15 for(i=0; i < rowSize; i++){
16     for(j=0; j < colSize; j++){
17         int val;
18         scanf("%d",&val);
19         if(val == 0) targetRow = i;
20         matrix[i][j] = val;
21     }
22 }
23
24 // calculation:-
25 // since we already have our target row, now loop all cells of that row
26 int col;
27 for(col = 0; col < colSize; col++){
28     matrix[targetRow][col] = 0;
29 }
30
31
32 // output
33 for(i=0; i < rowSize; i++){
34     for(j=0; j < colSize; j++){
35         printf("%d ",matrix[i][j]);
36     }
37     printf("\n");
38 }
39
40

```

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