

# Compile Result

Enter rows and columns: 2  
2

Enter matrix elements:

Enter element a11: 1

Enter element a12: 2

Enter element a21: 3

Enter element a22: 4

Entered matrix:

1 2

3 4

Transpose of the matrix:

1 3

2 4

[Process completed - press Enter]

Step 1: Start  
 Step 2: Declare `int a[10][10], transpose[10][10], r, c, i, j;`  
 Step 3: Read rows or Matrix rows & column  
`for(i=0; i<r; i++)`  
`for(j=0; j<c; j++)`  
`scanf("%d", &a[i][j])`

Step 4: Display Matrix using for loop  
`printf("%d", a[i][j]);`  
`if (j == c-1)`  
`printf("\n");`

Step 5: Cond<sup>n</sup> for transpose:  
`for(i=0; i<r; i++)`  
`for(j=0; j<c; j++)`  
`{ transpose[j][i] = a[i][j]`  
`}`

5.1 Print Transpose Matrix

`for(i=0; i<c; i++)`  
`for(j=0; j<r; j++)`  
`{ printf("%d", transpose[i][j])`  
`if (j == r-1)`  
`}`

Step 6: Stop

