#include<stdio.h>

int main()

{

int i, j, rows, columns, arr[10][10], temp;

printf("\n Please Enter Number of rows and columns : ");

scanf("%d %d", &i, &j);

printf("\n Please Enter the Matrix Elements \n");

for(rows = 0; rows < i; rows++)

{

for(columns = 0;columns < j;columns++)

{

scanf("%d", &arr[rows][columns]);

}

}

if(rows == columns)

{

for(rows = 0; rows < i; rows++)

{

temp = arr[rows][rows];

arr[rows][rows] = arr[rows][i - rows - 1];

arr[rows][i - rows - 1] = temp;

}

printf("\n Matrix Elemnts after Interchanging Diagonals are: \n");

for(rows = 0; rows < j; rows++)

{

for(columns = 0; columns < i; columns++)

{

printf("%d \t ", arr[rows][columns]);

}

printf("\n");

}

}

else

{

printf("\n The Matrix that you entered is Not a Square matrix" );

}

return 0;

}