```c
// Q74: Find the transpose of a matrix.

/*
Sample Test Cases:
Input 1:
2 3
1 2 3
4 5 6
Output 1:
1 4
2 5
3 6

*/

#include<stdio.h>
int main(){
int r,c,i,j;
scanf("%d%d",&r,&c);
int a[r][c];
for(i=0;i<r;i++)
for(j=0;j<c;j++)
scanf("%d",&a[i][j]);
for(i=0;i<c;i++){
for(j=0;j<r;j++)
printf("%d ",a[j][i]);
printf("\n");
}
return 0;
}
```

```c
C 38_q76.c > ...

3    /*
4    Sample Test Cases:
5    Input 1:
6    2 2
7    1 2
8    2 1
9    Output 1:
10   True
11
12   Input 2:
13   2 2
14   1 0
15   2 1
16   Output 2:
17   False
18
19   */
20
21   #include<stdio.h>
22   int main(){
23   int r,c,i,j,flag=1;
24   scanf("%d%d",&r,&c);
25   int a[r][c];
26   for(i=0;i<r;i++)
27   for(j=0;j<c;j++)
28   scanf("%d",&a[i][j]);
29   if(r!=c){
30   printf("False");
31   return 0;
32   }
33   for(i=0;i<r;i++){
34   for(j=0;j<c;j++){
35   if(a[i][j]!=a[j][i]){
36   flag=0;
37   break;
38   }
39   }
40   if(flag==0)break;
41   }
42   if(flag)printf("True");
43   else printf("False");
44   return 0;
45   }
46
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\38_q76.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
2 2
1 2
2 1
True
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\38_q76.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
2 2
1 0
2 1
False
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```