

```

2
3  /*
4  Sample Test Cases:
5  Input 1:
6  3 3
7  1 2 3
8  4 5 6
9  7 8 1
10 Output 1:
11 False
12
13 Input 2:
14 3 3
15 1 2 3
16 4 5 6
17 7 8 9
18 Output 2:
19 True
20
21 */
22
23 #include<stdio.h>
24 int main(){
25 int r,c,i,j,flag=1;
26 scanf("%d%d",&r,&c);
27 int a[r][c];
28 for(i=0;i<r;i++)
29 for(j=0;j<c;j++)
30 scanf("%d",&a[i][j]);
31 if(r!=c){
32 printf("False");
33 return 0;
34 }
35 for(i=0;i<r;i++){
36 for(j=i+1;j<r;j++){
37 if(a[i][i]==a[j][j]){
38 flag=0;
39 break;
40 }
41 }
42 if(flag==0)break;
43 }
44 if(flag)printf("True");
45 else printf("False");
46 return 0;
47 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\39_q77.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
3 3
1 2 3
4 5 6
7 8 1
False
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\39_q77.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
3 3
1 2 3
4 5 6
7 8 9
True
PS C:\Users\drago\OneDrive\Desktop\C H.W>

```

C 39\_q78.c > main()

```
1 // Q78: Find the sum of main diagonal elements for a square matrix.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 3 3
7 1 2 3
8 4 5 6
9 7 8 9
10 Output 1:
11 15
12
13 */
14
15 #include<stdio.h>
16 int main(){
17     int n,i,sum=0;
18     scanf("%d",&n,&n);
19     int a[n][n];
20     for(i=0;i<n;i++)
21         for(int j=0;j<n;j++)
22             scanf("%d",&a[i][j]);
23     for(i=0;i<n;i++)
24         sum+=a[i][i];
25     printf("%d",sum);
26     return 0;
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\39\_q78.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

```
3 3
1 2 3
4 5 6
7 8 9
15
```

PS C:\Users\drago\OneDrive\Desktop\C H.W>