C 39_q77.c > main()

```c

/*
Sample Test Cases:
Input 1:
3 3
1 2 3
4 5 6
7 8 1
Output 1:
False

Input 2:
3 3
1 2 3
4 5 6
7 8 9
Output 2:
True

*/

#include<stdio.h>
int main(){
int r,c,i,j,flag=1;
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]);
if(r!=c){
printf("False");
return 0;
}
for(i=0;i<r;i++){
for(j=i+1;j<r;j++){
if(a[i][i]==a[j][j]){
flag=0;
break;
}
}
if(flag==0)break;
}
if(flag)printf("True");
else printf("False");
return 0;
}
```

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()

```c
// Q78: Find the sum of main diagonal elements for a square matrix.

/*
Sample Test Cases:
Input 1:
3 3
1 2 3
4 5 6
7 8 9
Output 1:
15

*/

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

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>
```