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//CHONTHICHA PHUANGFUEANG

#include<conio.h>

#include<stdio.h>

int swap(int a[15][15],int m,int n,int c1,int c2);

int main()
{
int a[15][15],i,j,m,n,c1,c2;

printf("input order of matrix m,n = ");
scanf("%d,%d",&m,&n);
printf("input matrix A\n");
for(i=1;i<=m;i++)
for(j=1;j<=n;j++)
{
printf("a[%d][%d] = ",i,j);
scanf("%d",&a[i][j]);
}
printf("matrix A before swapping");
for(i=1;i<=m;i++)
{
printf("\n");
for(j=1;j<=n;j++)printf("%5d",a[i][j]);
}
printf("\ninput column number for swapping (c1,c2) : ");
scanf("%d,%d",&c1,&c2);
swap(a,m,n,c1,c2);
printf("Output matrix A");
for(i=1;i<=m;i++)
{
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        printf("\n");
        for(j=1;j<=n;j++)printf("%5d",a[i][j]);
    }
    getch();
}

int swap(int a[15][15],int m,int n,int c1,int c2)
{
    int i,j,temp;
    for(i=1;i<=n;i++)
    { temp = a[i][c1];
        a[i][c1]=a[i][c2];
        a[i][c2]=temp;
    }
    getch();
    return 0;
}

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input
input order of matrix m,n = 4,4
input matrix A
a[1][1] = 2
a[1][2] = 3
a[1][3] = 5
a[1][4] = 7
a[2][1] = 11
a[2][2] = 13
a[2][3] = 17
a[2][4] = 19
a[3][1] = 23
a[3][2] = 29
a[3][3] = 31
a[3][4] = 37
a[4][1] = 41
a[4][2] = 43
a[4][3] = 47
a[4][4] = 53
matrix A before swapping
  2   3   5   7
 11  13  17  19
 23  29  31  37
 41  43  47  53
input column number for swapping (c1,c2) : 1,4
Output matrix A
  7   3   5   2
 19  13  17  11
 37  29  31  23
 53  43  47  41

...Program finished with exit code 0
Press ENTER to exit console.

```

```

1 //CHONTHICHA PHUANGFUEANG
2 #include<conio.h>
3 #include<stdio.h>
4 int swap(int a[15][15],int m,int n,int c1,int c2);
5 int main()
6 {
7     int a[15][15],i,j,m,n,c1,c2;
8     printf("input order of matrix m,n = ");
9     scanf("%d,%d",&m,&n);
10    printf("input matrix A\n");
11    for(i=1;i<=m;i++)
12        for(j=1;j<=n;j++)
13    {
14        printf("a[%d][%d] = ",i,j);
15        scanf("%d",&a[i][j]);
16    }
17    printf("matrix A before swapping");
18    for(i=1;i<=m;i++)
19    {
20        printf("\n");
21        for(j=1;j<=n;j++)printf("%5d",a[i][j]);
22    }
23    printf("\ninput column number for swapping (c1,c2) : ");
24    scanf("%d,%d",&c1,&c2);
25    swap(a,m,n,c1,c2);
26    printf("Output matrix A");
27    for(i=1;i<=m;i++)
28    {
29        printf("\n");
30        for(j=1;j<=n;j++)printf("%5d",a[i][j]);
31    }
32    getch();
33 }
34 int swap(int a[15][15],int m,int n,int c1,int c2)
35 {
36     int i,j,temp;
37     for(i=1;i<=n;i++)
38     { temp = a[i][c1];
39       a[i][c1]=a[i][c2];
40       a[i][c2]=temp;
41     }
42     getch();
43     return 0;
44 }

```