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C (gcc 6.3)



Code gets automatic saving



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Code, Compile & Run

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Context Code/Name (e.g. PRACTICE/PRACTICE)

Select

Open file

Custom Input

```
3 3
4 6 0
1 2 8
5 7 9
```

Status: Successfully executed Date: 2020-06-24 03

Input

```
3 3
4 6 0
1 2 8
5 7 9
```

Output

```
the max element in row 1 is 6
the max element in row 2 is 8
the max element in row 3 is 9
the max element in column 1 is 5
the max element in column 2 is 7
the max element in column 3 is 9
```

```
1 #include <stdio.h>
2 int main()
3 {
4     int a[10][10], i, j, n, m, rmax=0, cmax=0;
5     printf("enter the order of the matrix\n");
6     scanf("%d%d", &m, &n);
7     printf("enter the matrix\n");
8     for(i=0; i<m; i++)
9     {
10         for(j=0; j<n; j++)
11         {
12             scanf("%d", &a[i][j]);
13             printf("%d\t", a[i][j]);
14         }
15         printf("\n");
16     }
17     for(i=0; i<m; i++)
18     {
19         for(j=0; j<n; j++)
20         {
21             if(a[i][j]>rmax)
22             {
23                 rmax=a[i][j];
24             }
25         }
26         printf("\n the max element in row %d is %d", i+1, rmax);
27     }
28     for(i=0; i<n; i++)
29     {
30         for(j=0; j<m; j++)
31         {
32             if(a[j][i]>cmax)
33             {
34                 cmax=a[j][i];
35             }
36         }
37         printf("\n the max element in column %d is %d", i+1, cmax);
38     }
39 }
```

C program to find max. element in row & column

Algorithm:

Step 1: Start

Step 2: I/p the matrix, $rmax=0$, $cmax=0$.

Step 3: for ($i=0$; $i \leq m-1$; $i++$)

for ($j=0$; $j \leq n-1$; $j++$)

$rmax = a[i][j]$

$cmax = a[j][i]$

Step 4: O/p $rmax$ & $cmax$

Step 5: Stop

Flowchart:

