**Assignment A8**

/\*An m x n *matrix* is said to have a saddle point if some entry *a[i][j]* is the smallest value in row *i* and the largest value in *j.* Write C/ C++ function that determines the location of a saddle point if one exists. \*/

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#include <iostream>

using namespace std;

int main()

{

int a[10][10],i,j,k,n,min,max,col,m;

//clrscr();

cout<<"enter order m,n of mxn matrix : ";

cin>>m>>n;

cout<<"enter elements row-wise\n";

for(i=0;i<m;i++)

{

for(j=0;j<n;j++)

{

cin>>a[i][j];

}

}

for(i=0;i<m;i++)

{

min=a[i][0];

for(j=0;j<n;j++)

{

if(a[i][j]<=min)

{

min=a[i][j];

col=j;

}

}

max=a[0][col];

for(k=0;k<m;k++)

{

if(a[k][col]>=max)

{

max=a[k][col];

}

}

if(max==min)

cout<<"saddle pt. is at A[" <<i<<"]["<<col<<"]";

}

return 0;

}

==========================================================================

Output

enter order m,n of mxn matrix : 3

3

enter elements row-wise

1

2

3

7

4

6

3

1

4

saddle pt. is at A[1][1]