

Answer on Question# 52660, Programming, C++

Write a program includes array two dimensional to show a table with 20 rows and 34 columns, to determine the maximum and minimum and average for each column and each row.

Answer: a

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#include <iostream>
#include <stdlib.h>

using namespace std;

int main() {
    int mass[20][34];
    int n=20,m=34;
    int i,j;
    //fill random:
    for(i=0;i<n;i++)
        for(j=0;j<m;j++)
            mass[i][j]=rand()%100-50;
    //output:
    for(i=0;i<n;i++)
    {
        for(j=0;j<m;j++)
            cout<<mass[i][j]<<" ";
        cout<<endl;
    }

    int max,min;
    float avg;
    for (i=0;i<n;i++)
    {
        max=mass[i][0];
        min=max;
        avg=0;
        for(j=0;j<m;j++)
        {
            if(min>mass[i][j])
                min=mass[i][j];
            if(max<mass[i][j])
                max=mass[i][j];
            avg+=mass[i][j];
        }
        avg/=1.*n;
        cout<<"in row "<<i<<": min="<<min;
        cout<<" max="<<max;
        cout<<" avg="<<avg<<endl;
    }

    for (j=0;j<m;j++)
    {
        max=mass[0][j];
        min=max;
```

```

    avg=0;
    for(i=0;i<n;i++)
    {
        if(min>mass[i][j])
            min=mass[i][j];
        if(max<mass[i][j])
            max=mass[i][j];
        avg+=mass[i][j];
    }
    avg/=1.*n;
    cout<<"in column "<<j<<": min="<<min;
    cout<<" max="<<max;
    cout<<" avg="<<avg<<endl;
}
return 0;
}

```