// Nguyen Xuan Thuan

// Viet ct sap xep tang dan theo moi hang

#include <iostream>

using namespace std;

int main ()

{

int a[100][100] = {0};

int m,n;

cout <<" Nhap vao so dong cua mang: "; cin >> m; cout << endl;

cout <<" Nhap vao so cot cua mang: "; cin >> n; cout << endl;

// Nhap mang

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

{

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

{

cout <<" Nhap phan tu thu [" << i << "][" << j << "]: ";

cin >> a[i][j];

cout << endl;

}

}

// Xuat mang

cout << "Mang sau khi nhap la: \n";

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

{

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

{

cout << a[i][j] <<"\t";

}

cout << endl;

}

// Sap xep mang tang dan theo moi cot

for (int i = 0; i < n; i++)

{

for ( int j = 0; j < m - 1; j++)

{

for ( int k = j + 1; k < m; k++)

{

if (a[j][i] > a[k][i] ) // ap dung thuat toan vec can de dua phan tu troi ve dau mang

{

int tam = a[j][i];

a[j][i] = a[k][i];

a[k][i] = tam;

}

}

}

}

// Xuat mang cho nguoi dung kiem tra

cout << "Mang sau khi sap xep la: \n";

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

{

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

{

cout << a[i][j] <<"\t";

}

cout << endl;

}

system ("pause");

return 0;

}