using System;

class Yura

{

static void Main()

{

double []minP= new double [3];

double[,][] M = new double [5, 3][];

for (int k = 0; k < 5; k++)

{

M[k, 0] = new double[3] ;

M[k, 1] = new double[3] ;

M[k, 2] = new double[3] ;

}

Vvid(M);

Console.WriteLine();

Console.WriteLine("Введений масив:");

Vuvid(M);

Sort(M);

Console.WriteLine("Посортований масив:");

Vuvid(M);

VMZ(minP, M);

Console.WriteLine("вектор м1н1мальних значень проф1льних площин: {0} {1} {2}", minP[0], minP[1], minP[2]);

Console.ReadKey(true);

}

//===================================================

//Function

//=====================================================

// vvid---------------------------------------

static void Vvid(double[,][] M)

{

string vvid;

for (int k = 0; k < 5; k++)

{

Console.WriteLine();

Console.WriteLine("{0} - проф1льна площина:",k+1);

Console.WriteLine();

for (int i = 0; i < 3; i++)

for (int j = 0; j < 3; j++)

{

vvid = Console.ReadLine();

M[k, i][j] = Convert.ToDouble(vvid);

}

}

}

//------------------------------

// vuvid---------------------------------------

static void Vuvid(double[,][] M)

{

for (int k = 0; k < 5; k++)

{

for (int i = 0; i < 3; i++)

{

for (int j = 0; j < 3; j++)

{

Console.Write("{0} ", M[k, i][j]);

}

Console.WriteLine();

}

Console.WriteLine(); Console.WriteLine();

}

}

//------------------------------

// sort---------------------------------------

static void Sort(double[,][] M)

{

double temp;

for (int k = 0; k < 5; k++)

{

for (int t = 0; t < 9; t++)

for (int i = 0; i < 3; i++)

{

for (int j = 0; j < 3; j++)

{

if (j<2)

{

if (M[k, i][j] < M[k, i][j + 1])

{

temp = M[k, i][j];

M[k, i][j] = M[k, i][j + 1];

M[k, i][j + 1] = temp;

}

else ;

}

else

{

if (i <2)

{

if (M[k, i ][j] < M[k, i+1][j-2])

{

temp = M[k, i + 1][j-2];

M[k, i + 1][j-2] = M[k, i][j];

M[k, i][j] = temp;

}

else ;

}

else ;

}

}

}

}

}

//------------------------------

//вектор мінімальних значень профільних площин

static void VMZ(double []minP, double[,][] M)

{

for (int j = 0; j < 3; j++)

{

double min = M[0, 0][j];

for (int k = 0; k < 5; k++)

{

for (int i = 0; i < 3; i++)

{

if (min > M[k, i][j])

min = M[k, i][j];

else ;

}

}

minP[j] = min;

}

}

//---------------------------------------------

}