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;

 }

 }

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

 }