------------------------------------switch------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Program

{

static void Main(string[] args)

{

int per;

Console.WriteLine("Enter the percentage");

per = Convert.ToInt32(Console.ReadLine());

switch(per>35?"PASS":"FAIL")

{

case "PASS": Console.WriteLine("PASSED");break;

case "FAIL": Console.WriteLine("FAILED"); break;

default: Console.WriteLine("Invalid percent");break;

}

}

}

}

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

Console.WriteLine("Enter the elements of {0}th row",i);

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

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total numof elements = " +a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

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

{

Console.WriteLine(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void rowsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum = 0;

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

{

sum += a[i, j];

}

Console.WriteLine("sum of(0) row = {1}",i,sum);

}

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows =");

rows = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

rowsum(a);

}

}

}

-------------------------------------------------sum of cols-----------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

Console.WriteLine("Enter the elements of {0}th row",i);

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

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total numof elements = " +a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

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

{

Console.WriteLine(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void rowsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum = 0;

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

{

sum += a[i, j];

}

Console.WriteLine("sum of(0) row = {1}",i,sum);

}

}

static void colsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum = 0;

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

{

sum += a[i, j];

}

Console.WriteLine("sum of(0) col = {1}", j, sum);

}

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows =");

rows = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

Console.WriteLine("SUM of ROWS");

rowsum(a);

Console.WriteLine("SUM OF COLS");

colsum(a);

}

}

}

-----------------------diagonal sum---------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

Console.WriteLine("Enter the elements of {0}th row",i);

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

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total numof elements = " +a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

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

{

Console.WriteLine(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void rowsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum = 0;

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

{

sum += a[i, j];

}

Console.WriteLine("sum of(0) row = {1}",i,sum);

}

}

static void colsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum = 0;

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

{

sum += a[i, j];

}

Console.WriteLine("sum of(0) col = {1}", j, sum);

}

}

static void diagonalsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

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

{

sum += a[i, i];

}

Console.WriteLine("The diagonal element=" +sum);

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows =");

rows = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

Console.WriteLine("SUM of ROWS");

rowsum(a);

Console.WriteLine("SUM OF COLS");

colsum(a);

if(rows==cols)

diagonalsum(a);

}

}

}

-------------------------------------concate arrays----------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[] a)

{

int n = a.Length;

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

a[n] = Convert.ToInt32(Console.ReadLine());

}

static void Main(string[] args)

{

int n1, n2, n;

Console.WriteLine("Enter the no of elements of array 1");

n1 = Convert.ToInt32(Console.ReadLine());

int[] a = new int[n1];

Console.WriteLine("Enter the no of elements of array 2");

n2 = Convert.ToInt32(Console.ReadLine());

int[] b = new int[n2];

Console.WriteLine("\n enter the elements of array 1");

input(a);

Console.WriteLine("\n enter the elements of array 1");

input(b);

int[] c = new int[n1 + n2];

for (int i = 0; i < n1 + n2; i++)

c[i] = (i < n1) ? a[i] : b[i - n1];

Console.WriteLine("\n the elements of array3");

for (int i = 0; i < n1 + n2; i++)

Console.WriteLine(c[i]);

}

}

}

---------------------------------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Program

{

static void Main(string[] args)

{

int per;

Console.WriteLine("Enter the percentage");

per = Convert.ToInt32(Console.ReadLine());

switch(per>70?"DIST":(per>50)?"FIRST":(per>35)?"PASS":"FAIL")

{

case "DIST": Console.WriteLine("DISTINCTION"); break;

case "FIRST": Console.WriteLine("FIRST CLASS"); break;

case "PASS": Console.WriteLine("PASSED");break;

case "FAIL": Console.WriteLine("FAILED"); break;

default: Console.WriteLine("Invalid percent");break;

}

}

}

}

-------------------------------------------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class JaggedArray1

{

static void Main(string[] args)

{

int rows;

Console.WriteLine("Enter num of rows");

rows = Convert.ToInt32(Console.ReadLine());

int[][] a = new int[rows][];

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

{

Console.WriteLine("Enter no of columns for {0} row",i);

int col = Convert.ToInt32(Console.ReadLine());

a[i] = new int[col];

}

Console.WriteLine("PROVIDE INPUT");

for(int i=0;i<a.GetLength(0);i++)

{

for(int j=0;j<a[i].Length;j++)

{

a[i][j] = Convert.ToInt32(Console.ReadLine());

}

}

Console.WriteLine("PRINTING ARRAY");

for(int i=0;i<a.GetLength(0);i++)

{

for(int j=0; j < a[i].Length;j++)

{

Console.WriteLine(a[i][j] +" \t");

}

Console.WriteLine();

}

int sum = 0;

Console.WriteLine("\n SUM OF EACH ROW ARRAY");

for(int i=0; i < a.GetLength(0);i++)

{

sum = 0;

for(int j=0;j<a[i].Length;j++)

{

sum += a[i][j];

}

Console.WriteLine("the sum of {0} row = {1}",i,sum);

}

}

}

}

---------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Matchingelement

{

static void Main(string[] args)

{

/\* int[] a = { 1, 2, 3, 4, 5 };

int[] b = { 2, 3, 4, 5, 8 };

var intersect = a.Intersect(b);

int[] x = intersect.ToArray();

Console.WriteLine();

foreach(int v in intersect)

Console.WriteLine(v);

\*/

int[] a = { 1, 2, 3, 4, 5 };

int[] b = { 2, 3, 4, 6, 7 };

for(int i=0; i <a.Length; i++)

{

for(int j=0;j<b.Length;j++)

{

if(a[i] == b[i])

Console.WriteLine(a[i]);

}

}

}

}

--------------------------------------------------------------

namespace Day

{

class Program

{

static void Main(string[] args)

{

int[] a = { 1, 2, 3, 2, 1, 4, 5, 6, 5, 8 };

int i, j;

for( i=0;i<a.Length;i++)

{

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

{

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

break;

}

if(i==j)

Console.WriteLine(a[i]);

}

}

}

}

-----------------------------Non Duplicate elements-------------------------------------

namespace Day

{

class Program

{

static void Main(string[] args)

{

int[] a = { 11,22,3,44,5,22,44,77};

int cnt;

Console.WriteLine("Nonduplicate array elements");

for (int i = 0; i < a.Length; i++)

{

cnt = 0;

for (int j = 0; j <a.Length ; j++)

{

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

{

cnt++;

if (cnt > 1)

break;

}

}

if(cnt ==1)

Console.WriteLine(a[i]);

}

}

}

}

------------------------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

Console.WriteLine("Enter the elements of {0}th row",i);

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

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total numof elements = " +a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

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

{

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

{

Console.WriteLine(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows =");

rows = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

}

}

}

----------------------------------------------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day

{

class Products

{

int pid;

string name;

float price;

public void getdata()

{

Console.WriteLine("please enter the PID =");

pid = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("please enter the NAME =");

name = Console.ReadLine();

Console.WriteLine("please enter the PRICE =");

price = float.Parse(Console.ReadLine());

}

public void printrecord()

{

Console.WriteLine("PID = " +pid);

Console.WriteLine("NAME = "+name);

Console.WriteLine("PRICE = "+price);

}

}

}

----------------------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day

{

class ProductOperations

{

static void Main(string[] args)

{

Products ob = new Products();

ob.getdata();

ob.printrecord();

}

}

}