תרגיל 38

Class

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace P\_99\_T\_38

{

class Traveler

{

private string name;

private double age;

private double numberofyears;

public Traveler(string n, double a, double num)

{

this.name = n;

this.age = a;

this.numberofyears = num;

}

public string Get\_Name()

{

return this.name;

}

public double Get\_Age()

{

return this.age;

}

public double Get\_NumberOfYears()

{

return this.numberofyears;

}

public void print()

{

Console.WriteLine(this.name);

Console.WriteLine(this.age);

Console.WriteLine(this.numberofyears);

}

}

}

Main

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace P\_99\_T\_38

{

class Program

{

static void Main(string[] args)

{

Traveler[] Arr = new Traveler[5];

Arr[0] = new Traveler("Barak Weisler", 16, 5);

Arr[1] = new Traveler("Shahar Vaalani", 5, 0.5);

Arr[2] = new Traveler("Arad Hadad", 14, 1);

Arr[3] = new Traveler("Gilai Zefania", 21, 1.5);

Arr[4] = new Traveler("Roei Shohat", 94.5, 83);

int place = -1;

double age = double.MaxValue;

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

{

if (Arr[i].Get\_Age() < age)

{

place = i;

age = Arr[i].Get\_Age();

}

}

Console.WriteLine(Arr[place].Get\_Name()+"\n"+ Arr[place].Get\_Age());

int count = 0;

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

{

if (Arr[i].Get\_NumberOfYears() >= Arr[i].Get\_Age() / 2)

{

count++;

}

}

Console.WriteLine(count);

int counter = 0;

double avarage = 0;

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

{

if (Arr[i].Get\_NumberOfYears() < 3)

{

counter++;

avarage += Arr[i].Get\_Age();

}

}

Console.WriteLine(avarage/counter);

}

}

}

תרגיל 39

Class

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace MyDate

{

class Date

{

private int day;

private int month;

private int year;

public Date(int d, int m, int y)//פעולה בונה

{

this.day = d;

this.month = m;

this.year = y;

}

public int Get\_Month()

{

return this.month;

}

}

}

Main

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace MyDate

{

class Program

{

public static void mostmonth(Date[] a)//פעולה המדפיסה את החודש בו יש הכי הרבה ימי הולדת

{

int[] months = new int[13];

ArrayService.zero(months);\\שימוש במחלקת שירות

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

{

months[a[i].Get\_Month()]++;

}

Console.WriteLine(ArrayService.bigestplace(months)); \\שימוש במחלקת שירות

}

static void Main(string[] args)

{

Date[] Dates = new Date[5];

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

{

Console.WriteLine("enter day");

int d = int.Parse(Console.ReadLine());

Console.WriteLine("enter month");

int m = int.Parse(Console.ReadLine());

Console.WriteLine("enter year");

int y = int.Parse(Console.ReadLine());

Dates[i] = new Date(d, m, y);

}

mostmonth(Dates);

}

}

}

תרגיל 40

Class

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace MyDomino

{

class Domino

{

private int topnumber;

private int lownumber;

// Random R = new Random();

//public Domino()

//{

// this.topnumber = R.Next(1, 7);

// this.lownumber = R.Next(1, 7);

//}

public Domino(int n1,int n2)

{

this.topnumber = n1;

this.lownumber = n2;

}

public int Get\_TopNumber()

{

return this.topnumber;

}

public int Get\_LowNumber()

{

return this.lownumber;

}

public void print()

{

Console.WriteLine(this.topnumber);

Console.WriteLine(this.lownumber);

}

}

}

Main

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace MyDomino

{

class Program

{

public static bool takin(Domino[] a)

{

bool takin = true;

for (int i = 0; i < a.Length - 1; i++)

{

if (a[i].Get\_LowNumber() != a[i + 1].Get\_TopNumber())

{

takin = false;

}

}

return takin;

}

static void Main(string[] args)

{

Domino[] Stones = new Domino[3];

Random R = new Random();

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

{

Stones[i] = new Domino(R.Next(1,7),R.Next(1,7));

}

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

{

Stones[i].print();

}

Console.WriteLine(takin(Stones));

}

}

}