Задача 1

using System;

namespace ConsoleApp25

{

class Program

{

static void Main(string[] args)

{

var km = double.Parse(Console.ReadLine());

var time = Console.ReadLine();

if (time == "day")

{

if (km < 20)

{

Console.WriteLine(km \* 0.79 + 0.70);

}

else if (km >= 20 && km < 100)

{

Console.WriteLine(km \* 0.09);

}

else if (km >= 100)

{

Console.WriteLine(km \* 0.06);

}

}

else if (time == "night")

{

if (km < 20)

{

Console.WriteLine(km \* 0.90 + 0.70);

}

else if (km >= 20 && km < 100)

{

Console.WriteLine(km \* 0.09);

}

else if (km >= 100)

{

Console.WriteLine(km \* 0.06);

}

}

}

}

}

Задача 2

using System;

namespace ConsoleApp25

{

class Program

{

static void Main(string[] args)

{

var V = int.Parse(Console.ReadLine());

var Pipe1 = double.Parse(Console.ReadLine());

var Pipe2 = double.Parse(Console.ReadLine());

var H = double.Parse(Console.ReadLine());

double P1 = Pipe1 \* H;

double P2 = Pipe2 \* H;

double V1 = P1 + P2;

if (V1 < V)

{

double percentageV = (V1 / V) \* 100;

double percentagePipe1 = Math.Round((P1 / V1) \* 100);

double percentagePipe2 = Math.Floor((P2 / V1) \* 100);

Console.WriteLine("The pool is " + percentageV + "% full. Pipe 1: " + percentagePipe1 + "%. Pipe 2: " + percentagePipe2 + "%.");

}

else if (V1 > V)

{

double overflows = V1 - V;

Console.WriteLine("For " + H + " hours the pool overflows with {0} liters.", overflows);

}

}

}

}

Задача 3

using System;

namespace ConsoleApp25

{

class Program

{

static void Main(string[] args)

{

var day = int.Parse(Console.ReadLine());

if (day >= 1 && day <= 365)

{

var Rest = 127 \* day;

var AtWork = (365 - day) \* 63;

var SumOfPlayTime = AtWork + Rest;

if (30000 > SumOfPlayTime)

{

var hours = (30000 - SumOfPlayTime) / 60;

var min = (30000 - SumOfPlayTime) % 60;

Console.WriteLine("Tom sleeps well");

Console.WriteLine(hours + " hours and " + min + " minutes less for play");

}

else if (30000 < SumOfPlayTime)

{

var hours = Math.Abs(30000 - SumOfPlayTime) / 60;

var min = Math.Abs(30000 - SumOfPlayTime) % 60;

Console.WriteLine("Tom will run away");

Console.WriteLine(hours + " hours and " + min + " minutes more for play");

}

}

else

{

Console.WriteLine("Invalid");

}

}

}

}

Задача 4

using System;

namespace ConsoleApp25

{

class Program

{

static void Main(string[] args)

{

Console.Write("Input area: ");

var X = double.Parse(Console.ReadLine());

Console.Write("Input grapes per m^2: ");

var Y = double.Parse(Console.ReadLine());

Console.Write("Needed liters of wine: ");

var Z = double.Parse(Console.ReadLine());

Console.Write("Number of workers: ");

var workers = int.Parse(Console.ReadLine());

if(X >= 10 && X <= 5000)

{

if (Y >= 0.00 && Y <= 10.00)

{

if (Z >= 10 && Z <= 600)

{

if (workers >= 1 && workers <= 20)

{

var SumOfGrapes = X \* Y;

var wine =(SumOfGrapes \* 0.4) / 2.5;

if (wine > Z)

{

Console.WriteLine("Good harvest this year! Total Wine: {0} liters.", wine);

var dif = wine - Z;

var LitersPerPerson = dif / workers;

Console.WriteLine(dif + " liters left -> " + LitersPerPerson + " liters per person.");

}

else if (wine < Z)

{

Console.Write("It will be a tough winter! ");

var dif1 = Math.Round(Z - wine, 0);

Console.WriteLine("More {0} liters wine needed.", dif1);

}

}

else

{

Console.WriteLine("Invalid");

}

}

else

{

Console.WriteLine("Invalid");

}

}

else

{

Console.WriteLine("Invalid");

}

}

else

{

Console.WriteLine("Invalid");

}

}

}

}

Задача 5

using System;

namespace ConsoleApp25

{

class Program

{

static void Main(string[] args)

{

var HourOnExam = int.Parse(Console.ReadLine());

if (HourOnExam >= 0 && HourOnExam <= 23)

{

var MinOnExam = int.Parse(Console.ReadLine());

if (MinOnExam >= 0 && MinOnExam <= 59)

{

var HourOnArrive = int.Parse(Console.ReadLine());

if (HourOnArrive >= 0 && HourOnArrive <= 23)

{

var MinOnArrive = int.Parse(Console.ReadLine());

if (HourOnArrive == HourOnExam)

{

if (MinOnArrive == MinOnExam)

{

Console.WriteLine("On time");

}

else if (MinOnArrive > MinOnExam)

{

int dif = MinOnArrive - MinOnExam;

Console.WriteLine("Late");

Console.WriteLine("{0} minutes after the start", dif);

}

else if (MinOnExam > MinOnArrive)

{

int dif = MinOnExam - MinOnArrive;

Console.WriteLine("On time");

Console.WriteLine("{0} minutes befor the start", dif);

}

}

else if (HourOnArrive > HourOnExam)

{

if (MinOnArrive == MinOnExam)

{

int dif = HourOnArrive - HourOnExam;

if (dif == 1)

{

Console.WriteLine("Late");

Console.WriteLine("{0} hour after the start", dif);

}

else

{

Console.WriteLine("Late");

Console.WriteLine("{0} hours after the start", dif);

}

}

else if (MinOnArrive > MinOnExam)

{

int dif = HourOnArrive - HourOnExam;

int dife = MinOnArrive - MinOnExam;

if (dif == 1)

{

Console.WriteLine("Late");

Console.WriteLine("{0}:{1} hours after the start", dif, dife);

}

else

{

Console.WriteLine("Late");

Console.WriteLine("{0}:{1} hours after the start", dif, dife);

}

}

else if (MinOnArrive < MinOnExam)

{

int dif = (HourOnArrive \* 60) + MinOnArrive;

int dife = HourOnExam \* 60 + MinOnExam;

int difer = Math.Abs(dif - dife);

int difere = difer / 60;

int diferen = difer % 60;

Console.WriteLine("Late");

Console.WriteLine("{0}:{1} hours after the start", difere, diferen);

}

}

else if (HourOnArrive < HourOnExam)

{

if (MinOnArrive == MinOnExam)

{

int dif = HourOnExam - HourOnArrive;

Console.WriteLine("Early");

Console.WriteLine("{0}:00 hours before the start", dif);

}

//100% ok

else if (MinOnArrive > MinOnExam)

{

int dife = MinOnArrive - MinOnExam;

int difer = MinOnExam + 60;

int difere = difer - MinOnArrive;

int dif = HourOnExam - 1 - HourOnArrive;

if (MinOnExam == 0)

{

if (dif != 0)

{

int diferent = HourOnExam - HourOnArrive;

Console.WriteLine("Early");

Console.WriteLine("{0}:{1} minutes before the start", dif, difere);

}

else

{

dife = 60 - MinOnArrive;

Console.WriteLine("Early");

Console.WriteLine("{0} minutes before the start", dife);

}

}

else if (dif != 0)

{

int diferent = HourOnExam - HourOnArrive;

Console.WriteLine("Early");

Console.WriteLine("{0}:{1} minutes before the start", dif, difere);

}

else if ( dif == 0)

{

Console.WriteLine("Early");

Console.WriteLine("{0}:{1} hours before the start",dif, difere);

}

else

{

Console.WriteLine("Early");

Console.WriteLine("{0} minutes before the start", difere);

}

}

else if (MinOnArrive < MinOnExam)

{

int dif = (HourOnArrive \* 60) + MinOnArrive;

int dife = HourOnExam \* 60 + MinOnExam;

int difer = Math.Abs(dife - dif);

int difere = difer / 60;

int diferen = difer % 60;

Console.WriteLine("Early");

Console.WriteLine("{0}:{1} hours befor the start", difere, diferen);

}

}

}

}

}

}

}

}

Задача 6

using System;

namespace ConsoleApp26

{

class Program

{

static void Main(string[] args)

{

var money = double.Parse(Console.ReadLine());

if (money <= 5000.00 && money >= 10.00)

{

var season = Console.ReadLine();

if (season == "summer" || season == "winter")

{

if (money <= 100)

{

Console.WriteLine("Somewhere in Bulgaria");

if (season == "summer")

{

var perc = Math.Round(money \* 0.30, 2);

Console.WriteLine("Camp - " + perc);

}

else if (season == "winter")

{

double perc = Math.Round(money \* 0.70, 2);

Console.WriteLine("Hotel - " + perc);

}

}

else if ( money > 100 && money <= 1000)

{

Console.WriteLine("Somewhere in Balkans");

if (season == "summer")

{

var perc = Math.Round(money \* 0.40, 2);

Console.WriteLine("Camp - " + perc);

}

else if (season == "winter")

{

var perc = Math.Round(money \* 0.80, 2);

Console.WriteLine("Hotel - " + perc);

}

}

else if (money > 1000 && money <=5000)

{

Console.WriteLine("Somewhere in Europe");

if (season == "summer")

{

var perc = Math.Round(money \* 0.90, 2);

Console.WriteLine("Hotel - " + perc);

}

else if (season == "winter ")

{

var perc = Math.Round(money \* 0.90, 2);

Console.WriteLine("Hotel - " + perc);

}

}

}

}

}

}

}

Задача 7

using System;

namespace ConsoleApp26

{

class Program

{

static void Main(string[] args)

{

var N1 = double.Parse(Console.ReadLine());

if (N1 <= 40000 && N1 >= 0)

{

var N2 = double.Parse(Console.ReadLine());

if (N2 <= 40000 && N2 >= 0)

{

string symbol = Console.ReadLine();

if (symbol == "+" || symbol == "-" || symbol == "\*" || symbol == "/" || symbol == "%")

{

if (symbol == "+")

{

var res = N1 + N2;

var EvenOrOdd = res % 2;

if (EvenOrOdd == 0)

{

Console.WriteLine("{0} + {1} = {2} - even", N1, N2, res);

}

else if (EvenOrOdd == 1)

{

Console.WriteLine("{0} + {1} = {2} - odd", N1, N2, res);

}

}

else if (symbol == "-")

{

var res = N1 - N2;

var EvenOrOdd = res % 2;

if (EvenOrOdd == 0)

{

Console.WriteLine("{0} - {1} = {2} - even", N1, N2, res);

}

else if (EvenOrOdd == 1)

{

Console.WriteLine("{0} - {1} = {2} - odd", N1, N2, res);

}

}

else if (symbol == "\*")

{

var res = N1 \* N2;

var EvenOrOdd = res % 2;

if (EvenOrOdd == 0)

{

Console.WriteLine("{0} \* {1} = {2} - even", N1, N2, res);

}

else if (EvenOrOdd == 1)

{

Console.WriteLine("{0} \* {1} = {2} - odd", N1, N2, res);

}

}

else if (symbol == "/")

{

if (N2 == 0)

{

Console.WriteLine("Cannot divide {0} by zero", N1);

}

else

{

// ima problem

double res = N1 / N2;

var res1 = Math.Round(res, 2);

Console.WriteLine("{0} / {1} = {2}",N1, N2 ,res1);

}

//nadolu e ok

}

else if (symbol == "%")

{

if (N2 == 0)

{

Console.WriteLine("Cannot divide {0} by zero", N1);

}

else

{

double res = N1 % N2;

var res1 = Math.Round(res, 2);

var EvenOrOdd = res1 % 2;

if (EvenOrOdd == 0)

{

Console.WriteLine("{0} % {1} = 0 ", N1, N2);

}

else

{

Console.WriteLine("{0} % {1} = 1 ", N1, N2);

}

}

}

}

}

}

}

}

}

Задача 8

using System;

namespace ConsoleApp28

{

class Program

{

static void Main(string[] args)

{

var money = double.Parse(Console.ReadLine());

if (money >= 1000.00 && money <= 1000000.00)

{

var kategory = Console.ReadLine();

if (kategory == "VIP" || kategory == "Normal")

{

var NumOfPeople = int.Parse(Console.ReadLine());

if (NumOfPeople >= 1 && NumOfPeople <= 200)

{

if (NumOfPeople >= 1 && NumOfPeople <= 4)

{

if (kategory == "Normal")

{

var sum = money \* 0.75;

var sum1 = money - sum;

var sum2 = sum1 - 249.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

else if (kategory == "VIP")

{

var sum = money \* 0.75;

var sum1 = money - sum;

var sum2 = sum1 - 499.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

}

//100%

else if (NumOfPeople >= 5 && NumOfPeople <= 9)

{

if (kategory == "Normal")

{

var sum = money \* 0.60;

var sum1 = money - sum;

var sum2 = sum1 - 249.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

else if (kategory == "VIP")

{

var sum = money \* 0.60;

var sum1 = money - sum;

var sum2 = sum1 - 499.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

}

//100%

else if (NumOfPeople >= 10 && NumOfPeople <= 24)

{

if (kategory == "Normal")

{

var sum = money \* 0.50;

var sum1 = money - sum;

var sum2 = sum1 - 249.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

else if (kategory == "VIP")

{

var sum = money \* 0.50;

var sum1 = money - sum;

var sum2 = sum1 - 499.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

}

//100%

else if (NumOfPeople >= 25 && NumOfPeople <= 49)

{

if (kategory == "Normal")

{

var sum = money \* 0.40;

var sum1 = money - sum;

var sum2 = sum1 - 249.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

else if (kategory == "VIP")

{

var sum = money \* 0.40;

var sum1 = money - sum;

var sum2 = sum1 - 499.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

}

else if (NumOfPeople >= 50 && NumOfPeople <= 200)

{

if (kategory == "Normal")

{

var sum = money \* 0.25;

var sum1 = money - sum;

var sum2 = sum1 - 249.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

else if (kategory == "VIP")

{

var sum = money \* 0.25;

var sum1 = money - sum;

var sum2 = sum1 - 499.99 \* NumOfPeople;

var sum3 = Math.Round(sum2, 2);

if (sum3 > 0)

{

Console.WriteLine("Yes! You have {0} leva left.", sum3);

}

else if (sum3 < 0)

{

var sum4 = Math.Abs(Math.Round(sum2, 2));

Console.WriteLine("Not enough money! You need {0} leva.", sum4);

}

}

}

}

}

}

}

}

}

Задача 9

using System;

namespace ConsoleApp30

{

class Program

{

static void Main(string[] args)

{

string month = Console.ReadLine();

if (month == "May" || month == "June" || month == "July" || month == "August" || month == "September " || month == "October")

{

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

if (night >= 0 && night <= 200)

{

if (month == "May" || month == "October")

{

if (night <= 7)

{

var pricest = 50 \* night;

var priceht = 65 \* night;

Console.WriteLine("Apartament: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

else if (night > 7 && night <= 14)

{

var price = 50 - 50 \* 0.05;

var pricest = night \* price;

var priceht = 65 \* night;

Console.WriteLine("Apartament: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

else if (night > 14)

{

var price = 50 - 50 \* 0.3;

var pricest = night \* price;

var price2 = 65 - 65 \* 0.1;

var priceht = night \* price2;

Console.WriteLine("Apartamen: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

}

else if (month == "June" || month == "September")

{

if (night <= 14)

{

var pricest = 75.20 \* night;

var priceht =Math.Round( 68.70 \* night, 2);

Console.WriteLine("Apartament: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

else if (night > 14)

{

var price = 50 - 50 \* 0.2;

var pricest = night \* price;

var price2 = 65 - 65 \* 0.1;

var priceht = night \* price2;

Console.WriteLine("Apartamen: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

}

if (month == "July" || month == "August")

{

if (night <= 7)

{

var pricest = 76 \* night;

var priceht = 77 \* night;

Console.WriteLine("Apartament: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

else if (night > 14)

{

var pricest = 76 \* night;

var price = 76 - 76 \* 01;

var priceht = night \* price;

Console.WriteLine("Apartament: {0} lv.", priceht);

Console.WriteLine("Studio: {0} lv.", pricest);

}

}

}

}

}

}

}