using System;

using System.Collections.Generic;

using System.Globalization;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Text.RegularExpressions;

namespace ConsoleApp7

{

class Program

{

public static IEnumerable<double> GetNumbers(string input)

{

var matches = Regex.Matches(input, @"-?\d+(?:\.\d+)?", RegexOptions.Compiled);

return from Match match in matches select double.Parse(match.Value, CultureInfo.InvariantCulture);

}

static void Main(string[] args)

{

Console.WriteLine("Write text:");

var text1 = Console.ReadLine();

var numbers = GetNumbers(text1);

if (numbers.Any())

Console.WriteLine("Max number in the text is: {0}", numbers.Max());

else

Console.WriteLine("No numbers in the text");

string text = @"04:55:34 223.345.12.158 www.aaa.ru

04:59:55 213.134.112.56 www.bbb.net

05:05:01 223.34.12.156 www.aaa.by";

Regex theReg = new Regex(@"(?<time>(\d|\:)+)\s" +

@"(?<ip>(\d|\.)+)\s" +

@"(?<site>\S+)");

MatchCollection theMatches = theReg.Matches(text);

foreach (Match theMatch in theMatches)

{

if (theMatch.Length != 0)

{

Console.WriteLine("\ntheMatch: {0}", theMatch.ToString()); //1

Console.WriteLine("time: {0}", theMatch.Groups["time"]); //2

Console.WriteLine("ip: {0}", theMatch.Groups["ip"]); //3

Console.WriteLine("site: {0}", theMatch.Groups["site"]); //4

}

}

Console.WriteLine();

Console.WriteLine("Правильные ограничения:");

Console.WriteLine();

Regex theReg1 = new Regex(@"(?<time1>\d([0-9]{1,2}):\d([0-9]{1,2}):\d([0-9]{1,2}))\b\s" +

@"(?<ip1>\d(\w+){1,3}\.\d(\w+){1,3}\.\d(\w+){1,3}\.\d(\w+){1,3})\b\s" +

@"(?<site1>\S(\w+){1,3}\.\S\*(\w+)\.by|\S(\w+){1,3}\.\S\*(\w+)\.net)\b");

MatchCollection thematches1 = theReg1.Matches(text);

foreach (Match sss in thematches1)

{

Console.WriteLine("\ntheMatch: {0}", sss.ToString()); //1

Console.WriteLine("time: {0}", sss.Groups["time1"]); //2

Console.WriteLine("ip: {0}", sss.Groups["ip1"]); //3

Console.WriteLine("site: {0}", sss.Groups["site1"]); //4

}

}

}

}