**7 kyu**

**Largest 5 digit number in a series**

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C#

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In the following 6 digit number:

283910

91 is the greatest sequence of 2 consecutive digits.

In the following 10 digit number:

1234567890

67890 is the greatest sequence of 5 consecutive digits.

Complete the solution so that it returns the greatest sequence of five consecutive digits found within the number given. The number will be passed in as a string of only digits. It should return a five digit integer. The number passed may be as large as 1000 digits.

*Adapted from ProjectEuler.net*

<https://www.codewars.com/kata/largest-5-digit-number-in-a-series/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int GetNumber(string str)

{

int max = 0;

for (int i = 0; i + 4 < str.Length; i++)

{

max = Math.Max(int.Parse(str.Substring(i, 5)), max);

}

return max;

}

static void Main(string[] args)

{

//string a = "1234567890";

string str = "7316717653133062491922511967442657474235534919493496983520368542506326239578318016984801869478851843858615607891129494954595017379583319528532088055111254069874715852386305071569329096329522744304355766896648950445244523161731856403098711121722383113622298934233803081353362766142828064444866452387493035890729629049156044077239071381051585930796086670172427121883998797908792274921901699720888093776657273330010533678812202354218097512545405947522435258490771167055601360483958644670632441572215539753123457977846174064955149290862569321978468622482839722413756570560574902614079729686524145351004748216637048440319989000889524345065854122758866688116427171479924442928230863465674813919123162824586178664583591245665294765456828489128831426076900422421902267105562632111110937054421750694165896040807198403850962455444362981230987879927244284909188845801561660979191338754992005240636899125607176060588611646710940507754100225698315520005593572972571636269561882670428252483600823257540920752963450";

//GetNumber("0122319868");

Console.WriteLine(GetNumber(str));

Console.WriteLine(GetNumber("1234567898765"));

Console.ReadLine();

}

}

}