**6 kyu**

**Character with longest consecutive repetition**

24993% of 16997 of614[suic](https://www.codewars.com/users/suic)

C#

* [TRAIN AGAIN](https://www.codewars.com/kata/character-with-longest-consecutive-repetition/train/csharp)
* [NEXT KATA](https://www.codewars.com/trainer/csharp)

Details

[Solutions](https://www.codewars.com/kata/character-with-longest-consecutive-repetition/solutions/csharp)

[Forks (3)](https://www.codewars.com/kata/character-with-longest-consecutive-repetition/forks/csharp)

[Discourse (19)](https://www.codewars.com/kata/character-with-longest-consecutive-repetition/discuss/csharp)

* Add to Collection
* |
* Share this kata:

For a given string s find the character c with longest consecutive repetition and return a tuple (c, l) (in Haskell Just (Char, Int), in C# Tuple<char?, int>, in Shell a String of comma-separated values c,l, in JavaScript [c,l], in Ruby [c, l], in Groovy [c, l]) where l is the length of the repetition. If there are two or more characters with the same l return the first.

For empty string return ('', 0) (in Haskell Nothing, in C# Tuple<char, int>(null, 0), in Shell ,0, in JavaScript ["",0], in Ruby ["", 0], in Groovy ["", 0]).

Happy coding! :)

<https://www.codewars.com/kata/character-with-longest-consecutive-repetition/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static Tuple<char?, int> LongestRepetition(string input)

{

if(input == null || input.Length == 0)

{

return new Tuple<char?, int>(null, 0);

}

int cont = 1;

char prev = input[0];

int max\_cont = cont;

char max\_char = prev;

int i = 1;

for (; i < input.Length; i++)

{

if (input[i] != prev)

{

//max\_cont = Math.Max(max\_cont, cont);

if(cont > max\_cont)

{

max\_cont = cont;

max\_char = prev;

}

cont = 0;

}

prev = input[i]; cont++;

}

//if (input[input.Length-1] != prev)

{

if (cont > max\_cont)

{

max\_cont = cont;

max\_char = input[input.Length - 1];

}

}

//Console.WriteLine(max\_char + " " + max\_cont);

Tuple<char?, int> t =

new Tuple<char?, int>(max\_char, max\_cont);

return t;

}

static void Main(string[] args)

{

LongestRepetition("aaaabb");

Console.ReadLine();

}

}

}