**6 kyu**

**Simple Fun #116: Prime String**

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C#

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**Task**

The string is called prime if it cannot be constructed by concatenating some (more than one) equal strings together.

For example, "abac" is prime, but "xyxy" is not("xyxy"="xy"+"xy").

Given a string determine if it is prime or not.

**Input/Output**

* [input] string s

string containing only lowercase English letters

* [output] a boolean value

true if the string is prime, false otherwise

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----------------------------------------------

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static bool PrimeString(string s)

{

if (s.Length == 1) return true;

//coding and coding..

string concat = "";

for (int len = 1; len < Math.Ceiling(s.Length / 2.0) + 1; len++)

{

concat = s.Substring(0, len);

bool flag = true;

int i;

for (i = 0; i + concat.Length <= s.Length; i += concat.Length)

{

if (concat != s.Substring(i, concat.Length))

{

// return false;

flag = false;

break;

}

}

if (i == s.Length && flag) return false;

}

return true;

}

public bool PrimeString(string s)

{

return (s + s).IndexOf(s, 1) == s.Length;

}

static void Main(string[] args)

{

// PrimeString("1234567");

//string s = "fdsyffdsyffdsyffdsyffdsyf";

string s = "x";

//string s = "abc";

Console.WriteLine(PrimeString(s));

Console.ReadLine();

}

}

}