Perfect Substrings

A perfect substring is a substring whose length is a perfect number, a perfect number is a number that its sum of its factor(excluding itself) equal to itself.

Sample Test Case: #1 Input : abcadf Output: 1

#2 Input: codefights Output: 5

in the first sample "abcadf" has one perfect substring "abcadf" whose length is 6, factor of 6 = 1,2,3,6 sum of its factor excluding itself : 1+2+3=6 (equal) ,therefore its perfect

in the second sample "codefights" has 5 perfect substrings , they are "codefi", "odefig" , "defigh" , "efight" , "fights";

Input: string whose length 1<=n<=100 Output: integer , the number of perfect substrings

NB: if the string has 2 or more same substrings, count them all

Code Luck! :)

* **[time limit] 3000ms (cs)**
* **[input] string str**

string (only latin lowercase)

* **[output] integer**

The number of the perfect substrings

<https://codefights.com/challenge/Qx4gPkkxAGfMivej7/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int perfect\_substrings(string str)

{

int[] perfec = { 6, 28, 496, 8128 };

int sum = 0;

foreach (int p in perfec)

{

if (str.Length >= p)

{

sum += str.Length - p + 1;

}

}

return sum;

}

static void Main(string[] args)

{

Console.WriteLine(perfect\_substrings("abcdef"));

Console.ReadLine();

}

}

}