**Search for letters**

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C#

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String search

Create a method to accept one arbitrary string as an argument, and return a string of length 26.

The objective is to detect if letters of the alphabet (upper or lower case) are present anywhere in the string, and to set each of the 26 characters corresponding to each letter to either '1' if present, '0' if not.

So if an 'a' or an 'A' appears anywhere in the argument string (any number of times), set the first character of the returned string to '1' otherwise to '0', if 'b' or 'B' the the second to '1', and so on for the rest of the alphabet.

So the returned string consists only of '1's and '0's.

For instance:

Kata.Change("a \*\*& bZ") => "11000000000000000000000001"

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static string Change(string input)

{

input = input.ToLower();

char[] letras = new char[26];

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

{

letras[i] = '0';

}

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

{

if (char.IsLetter(input[i]))

{

letras[input[i] - 'a'] = '1';

}

}

return new string(letras);

}

public static string Change(string input)

{

// Make a HashSet of all characters (converted to lower case) for fast lookup times

HashSet<char> characters = new HashSet<char>(input.ToLower());

// String to be mapped and returned

string output = new String('\_', 26);

// Map string and concat back into string

output = String.Concat(output.Select((\_, idx) =>

{

// Check if characters contains the character with char code (idx + 97), 97 being the start of ASCII lowercase characters

if (characters.Contains((char)(idx + 97)))

{

return "1";

}

else

{

return "0";

}

}));

return output;

}

static void Main(string[] args)

{

Console.WriteLine(Change("a \*\*& bZ"));

Console.ReadLine();

}

}

}