Coding questions on strings with solutions

1. **first char of each word in caps**

using System;

using System.Collections.Generic;

using System.Text;

using static System.Console;

namespace DataStructureDemo.Example

{

public class StringDataStructure

{

static public void GetFirstCharForEachWord(string sentence)

{

if (!string.IsNullOrEmpty(sentence))

{

string[] arr = sentence.Split(' ');

foreach (string item in arr)

{

Write(item.Substring(0, 1).ToUpper() + " ");

}

ReadKey();

}

}

public static void Main(){

GetFirstCharForEachWord("Jayashree");

}

}

}

2.get the word count in sentence.

using System;

namespace DataStructureDemo.Example

{

static public class StringDataStructure

{

// Get the count of the word in a sentence

static public int GetWordCount(string \_title)

{

if (string.IsNullOrEmpty(\_title))

return 0;

else{

\_title = \_title.Trim();

var length = \_title.Split(' ').Length;

Console.WriteLine(length);

return length;

}

}

public static void Main(){

GetWordCount("I work in Capgemini");

}

}

}

3.string is palindrome or not

using System;

namespace DataStructureDemo.Example

{

public class StringDataStructure

{

// Check the string is a palindrome

static public bool CheckPalindrome(string \_title)

{

bool result = true;

if (string.IsNullOrEmpty(\_title))

return false;

\_title = \_title.ToLower().Trim();

var min = 0;

var max = \_title.Length - 1;

while (max >= 0)

{

if (\_title[min] == \_title[max])

{

min++;

max--;

}

else

{

return false;

}

}

return result;

}

public static void Main()

{

Console.WriteLine(CheckPalindrome("415"));

}

}

}

4.index of string using binary search

using System;

using System.Collections.Generic;

using System.Text;

using static System.Console;

namespace DataStructureDemo.Example

{

public class StringDataStructure

{

// Get the binary search on string

public static void BinarySearchOnstring()

{

string[] arr = new string[] { "Hi", "Guest", "I", "Mukesh", "Am" };

Array.Sort(arr); // Am, Guest, Hi, I, Mukesh

var index = Array.BinarySearch<string>(arr, "Hi");

WriteLine("The position of 'Hi' in array is " + index);

}

public static void Main(){

BinarySearchOnstring();

}

}

}

5.possible substring in string

using System;

using System.Collections.Generic;

using System.Text;

using static System.Console;

namespace DataStructureDemo.Example

{

public class StringDataStructure

{

// Get the possible substring in a string

static public void GetPossibleSubstring(string word)

{

if (!string.IsNullOrEmpty(word))

{

for (int i = 1; i < word.Length; i++)

{

for (int j = 0; j <= word.Length - i; j++)

{

Console.WriteLine(word.Substring(j, i));

}

}

}

//ReadLine();

}

public static void Main()

{

GetPossibleSubstring("Capgemini Hyderabad");

}

}

}