# Programming Advanced for QA – Regular Exam

# 13 April 2024

Submit your zip file here: <https://judge.softuni.org/Contests/Compete/Index/4553#0>

# 1. Unit Test: String Modifier

Test a method that takes a **string** parameter and **modifies each word in it based on its length**. If the word contains an **even number of letters**, it will be **uppercase**. If it contains an **odd number of letters** – it will make it **lowercase**.

### Examples

|  |  |
| --- | --- |
| **Argument** | **Returned string value** |
| test | TEST |
| SoftUni | softuni |
| SoftUni the best | softuni the BEST |

The method is found in the StringModifier.cs file:

Картина, която съдържа текст, екранна снимка, Шрифт, номер

Описанието е генерирано автоматично

You are given a **test** **file** StringModifierTests.cs containing **4 empty tests**. Implement all tests:

Картина, която съдържа текст, екранна снимка, Шрифт, номер

Описанието е генерирано автоматично

When you are ready make sure your **tests run:**

**Картина, която съдържа текст, Шрифт, екранна снимка

Описанието е генерирано автоматично**

**IMPORTANT:** **DO NOT REMOVE OR CHANGE ANY NAMESPACES AND USINGS.**

using NUnit.Framework;

namespace TestApp.Tests

{

[TestFixture]

public class StringModifierTests

{

[Test]

public void Test\_Modify\_EmptyString\_ReturnsEmptyString()

{

// Arrange

string input = "";

string expectedOutput = "";

// Act

string result = StringModifier.Modify(input);

// Assert

Assert.AreEqual(expectedOutput, result);

}

[Test]

public void Test\_Modify\_SingleWordWithEvenLength\_ReturnsUpperCaseWord()

{

// Arrange

string input = "test";

string expectedOutput = "TEST";

// Act

string result = StringModifier.Modify(input);

// Assert

Assert.AreEqual(expectedOutput, result);

}

[Test]

public void Test\_Modify\_SingleWordWithOddLength\_ReturnsToLowerCaseWord()

{

// Arrange

string input = "SoftUni";

string expectedOutput = "softuni";

// Act

string result = StringModifier.Modify(input);

// Assert

Assert.AreEqual(expectedOutput, result);

}

[Test]

public void Test\_Modify\_MultipleWords\_ReturnsModifiedString()

{

// Arrange

string input = "SoftUni the best";

string expectedOutput = "softuni the BEST";

// Act

string result = StringModifier.Modify(input);

// Assert

Assert.AreEqual(expectedOutput, result);

}

}

}