# Programming Fundamentals and Unit Testing

# Regular Exam – 5 November 2023

Submit your zip file here: <https://judge.softuni.org/Contests/Compete/Index/4444#3>

# 4. Unit Test Array: Balanced Brackets

Test a given method which takes in **multiple amounts of string** and finds if the amount of **opening** **brackets** are the same as the **closing** **brackets**. Method returns **true** if the brackets are balanced (**opening** **brackets** are the same as the **closing** **brackets),** otherwise returns **false.**

## Examples

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Result** |  | **Input** | **Result** |
| {"(", ")","(",")"} | true |  | {")","(", ")"} | false |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Result** |  | **Input** | **Result** |
| {} | true |  | {"(", ")"} | true |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Result** |  | **Input** | **Result** |
| {"(", ")", "(", ")", ")"} | false |  | {")", "("} | false |

The method is found in the BalancedBrackets.cs file:

A screenshot of a computer program

Description automatically generated

A close up of a word

Description automatically generated

You are given a **test** **file** BalancedBracketsTests.cs containing **5 empty tests**. Implement all the unit tests:

A screenshot of a computer

Description automatically generated

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

A screenshot of a computer

Description automatically generated

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