# Testing Document

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# Introductory Exercises

## Adding Two Numbers

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| Example: 10 + 5 | 15 | 15 | Passed |
| 4.5 + 6.7 | 11 | 11 | Passed |
| 2.99 + 10 | 12 | 12 | Passed |

## Fibonacci

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| Example: 4 | 0, 1, 1, 2 | 0, 1, 1, 2 | Passed |
| 6 | 0 1 1 2 3 5 | 0 1 1 2 3 5 | Passed |
| 1 | 0 | 0 | Passed |

## Fizz Buzz

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| 5 | 1, 2, Fizz, 4, Buzz | 1, 2, Fizz, 4, Buzz | Passed |
| 15 | 1, 2, Fizz, 4, Buzz, Fizz, 7, 8, Fizz, Buzz, 11, Fizz, 13, 14, FizzBuzz | 1, 2, Fizz, 4, Buzz, Fizz, 7, 8, Fizz, Buzz, 11, Fizz, 13, 14, FizzBuzz | Passed |

# Exercises on Arrays

## Sum of Array

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| 0, 1, 2, 3 | 6 | 6 | Passed |
| 2, 4, 8, 16, 32, 64 | 126 | 126 | Passed |
| 33, 74, 52, 9 | 168 | 168 | Passed |

## Sorting an Array (Descending)

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| 4, 3, 2, 1, 0 | 4, 3, 2, 1, 0 | 4, 3, 2, 1, 0 | Passed |
| 4, 3, 4, 3, 4 | 4, 4, 4, 3, 3 | 4, 4, 4, 3, 3 | Passed |
| 1, 8, 9, 4, 0, 6, 7, 5 | 9, 8, 7, 6, 5, 4, 1, 0 | 9, 8, 7, 6, 5, 4, 1, 0 | Passed |

# Exercises on Files

## Alphabetise a File

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Passed?** |
| 13  spillway  fishmonger  bankbook  eyesight  wheelhouse  keyword  pinup  uppercut  washbowl  deadend  coffeemaker  houseboat  typewriter  using words.txt | bankbook  coffeemaker  deadend  eyesight  fishmonger  houseboat  keyword  pinup  spillway  typewriter  uppercut  washbowl  wheelhouse  save to output.txt | bankbook  coffeemaker  deadend  eyesight  fishmonger  houseboat  keyword  pinup  spillway  typewriter  uppercut  washbowl  wheelhouse  saved to output.txt | Passed |
| 10  lemon  buffalo  wing  sauce  chorizo  larry  loser  chipotle  chicken  steak  using words2.txt | buffalo  chicken  chipotle  chorizo  larry  lemon  loser  sauce  steak  wing  save to output2.txt | buffalo  chicken  chipotle  chorizo  larry  lemon  loser  sauce  steak  wing  saved to output2.txt | Passed |

# Debugging Exercises

## Exercise 1: Run the Debugger

A screenshot of a computer

Description automatically generated with medium confidence

## Exercise 2: Compiler Errors

Error – CS0165

A screenshot of a computer

Description automatically generated

The variable ‘fibLength’ needs to be assigned a value or set to null for the compiler to work. Assuming you are using that variable later in the code.

Error – CS1002

Graphical user interface, text

Description automatically generated

The compiler detects there is a missing semicolon and tells you what line of code is giving the error.

Error – CS7036

A screenshot of a computer

Description automatically generated with medium confidence

There needs to be an argument given(of the same parameter type) inside the brackets to the “PrintArray()” method otherwise the function won’t execute.

## Exercise 3: Reference Material

https://www.w3schools.com/cs/index.php

<https://docs.microsoft.com/en-us/dotnet/csharp/>

Used these websites(and others) multiple times to see code examples and further understand components of c#.

## Exercise 4: Using the Debugger

A screenshot of a computer

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