



# C++ code kata: Week #1

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Hello 🤖

## Ground statement

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Consider you as a data engineer. As a data engineer, your first task is to make vowel recognition dataset. For the exercise, you have to write `vowels_counter()` that will take a string and returns the total number of vowels in it. e.g. 🖱

```
auto nCount = vowels_counter("abcde")
printf("%d", n Count)
2
```

## Surface #1

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If you have completed **Ground Statement**, then for **surface # 1** exercise you have to return the sum of the total number of vowels till it is a single digit. e.g. 🖱

```
auto nCSum = vowels_counter("A cup of tea and coffee with sugar cube.")
printf("%d", n Count)
5
```

## Surface #2

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To reach **surface # 2** you have to return the sum of the total number of vowels in each substring. "abba" will have substrings "a, ab, bb, ba, abb, bba, abba", and the number of vowels in each substring will be 1 1, 0, 1, 1, 1, 2 and the total number will be sum of all vowels presence e.g. 🖱

```
auto nCSum = vowels_counter("abba")
printf("%d", n Count)
7
```

## Tools

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To write solutions you can download tools from:

Tool	Usage	Download Location
Visual Studio Code	Lightweight program editor.	<a href="#">Download</a>
GCC (Linux)	C / C++ Compiler.	<a href="#">Download</a>
MingGW (Windows)	C / C++ Compiler.	<a href="#">Download</a>
XCode toolkit (MacOS)	IDE with multi language support.	<a href="#">Download</a>
Catch2	C++ Test framework	<a href="#">Download</a>

## Test Script

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Test Script for this week's problem can be downloaded from [here](#).

All the best 🍀

***Still have some questions related to this exercise. Reach us at***

1.  programmingdays (Skype)