

# Lab2: Part2 (Programming)

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**Due** Sep 2, 2020 by 11:59pm      **Points** 26      **Submitting** a website url

**Available** Aug 28, 2020 at 8pm - Sep 3, 2020 at 12:05am

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This assignment was locked Sep 3, 2020 at 12:05am.

## Part 2: Simple string operations in C++

**Background:** Similar to almost all programming languages, C++ provides a standard set of string functions that can be used to perform standard string operations.

**Exercise:** This exercise expects you to develop a simple program that performs the following string:

1. Read a line of input (using `std::getline` method) from the user after prompting for input (see sample output below for message details).
2. The program must display the following information about the line entered by the user (see sample output for message details):
  1. The number of words.
  2. The largest word.


[lab2.cpp](https://miamioh.instructure.com/courses/129645/files/16945822/download?wrap=1) (<https://miamioh.instructure.com/courses/129645/files/16945822/download?wrap=1>)  ([https://miamioh.instructure.com/courses/129645/files/16945822/download?download\\_frd=1](https://miamioh.instructure.com/courses/129645/files/16945822/download?download_frd=1)) has a template with comments to help get you started with the lab.

**Note:** You may assume that there is only one blank space between words (user will input at least 1 word) and there are *no leading or trailing blanks*.

**Hint:** Carefully consider the parameters of `substr` and consider what you just learned regarding the find methods defined on `std::string`

### Style checking C++ programs

In this course, we will be adhering to the CSE programming style conventions

(<http://miamioh.edu/cec/academics/departments/cse/academics/programming-style/index.html>  (<http://miamioh.edu/cec/academics/departments/cse/academics/programming-style/index.html>)). The style conventions will be checked and enforced using the `cpplint` tool (a slightly modified version of Google's lint).

### Sample Output:

User inputs in two different runs of the program are shown in red color in the sample outputs below:

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[vendomcg@Dagobah lab2]\$ ./vendomcg_lab2 Enter a line: <b>i will go to spring ice</b> Number of words: 6 Largest word: spring	[vendomcg@Dagobah lab]\$ ./vendomcg_lab2 Enter a line: <b>checking 1 two 3</b> Number of words: 4 Largest word: checking
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**Due: Wednesday, September 2nd @ 11:59PM**

Some Rubric (1)			
Criteria	Ratings		Pts
Follows Style Guide	2 pts Full Marks	0 pts No Marks	2 pts
Uses getline to get input from user	4 pts Full Marks	0 pts No Marks	4 pts
Follows specification to get user input	4 pts Full Marks	0 pts No Marks	4 pts
Follows specification on displaying results	4 pts Full Marks	0 pts No Marks	4 pts
Correctly identifies the largest word	6 pts Full Marks	0 pts No Marks	6 pts
Correctly identifies word count	6 pts Full Marks	0 pts No Marks	6 pts
			Total Points: 26