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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Modern C++ (course)



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Lecture 41 : Input-Output: File Handling

W9 Programming Qs-3

Due on 2023-03-30, 23:59 IST

Consider the following program (in C++11), which finds the frequency of each vowel in a given string. Fill in the blanks as per the instructions given below:

- Fill in the blank at LINE-1 with an appropriate statement to iterate over the given string str.
- Fill in the blank at LINE-2 with conditional statement to extract the vowels.
- Fill in the blank at LINE-3 with an appropriate statement to iterate over the given map vFreq, and print it.

The program must satisfy the sample input and output.

Your last recorded submission was on 2023-03-25, 21:14 IST

Select the Language for this assignment. C++ ✓

```
#include <iostream>
   #include <map>
   #include <string>
5
   std::map<char, int> findVowelFrequency(std::string str){
 6
        std::map<char, int> vFreq;
   for (auto it = str.begin(); it != str.end(); ++it) //LINE-1
          if(*it=='a' || *it=='e'|| *it=='e'|| *it=='i'|| *it=='o'||
 7
 8
 9
                  vFreq[*it]++;
10
        return vFreq;
11
12
13
   void print(std::map<char, int> vFreq){
        for (auto it= vFreq.begin(); it !=vFreq.end(); ++it)
```



```
in C (unit?
  unit=102&lesson=103)
                              std::cout << it->first << " -> " << it->second << std::endl;</pre>
                           1
2
3
4
Lecture 42 :
  Input-Output:
                              int main() {
                                   std::string s;
  Streams in
                           5
6
                                   std::cin >> s;
std::map<char, int> vFreq = findVowelFrequency(s);
  C++ (unit?
  unit=102&lesson=104)
                           7
                                   print(vFreq);
                           8
                                   return 0;
Lecture 43 :
                           9 }
  C++ Standard
                        You may submit any number of times before the due date. The final submission will be
  Library: Part 1
                        considered for grading.
  (Generic
  Programming)
```

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will not be graded and you will not see your score after the deadline.

Save as <u>D</u>raft <u>Compile & Run <u>S</u>ubmit <u>R</u>eset</u>

C++ Standard
Library: Part 2
(STL) (unit?
unit=102&lesson=106)

unit=102&lesson=105)

(unit?

C++ Standard Library: Part 3 (STL) (unit?

unit=102&lesson=107)

Tutorial 09:
How to design
a UDT like
built-in types?:
Part 3:
Updates and
Mixes of UDTs
(unit?
unit=102&lesson=108)

Week 9 Lecture Material (unit? unit=102&lesson=109)

Quiz: Week 9 : Assignment 9 (assessment? name=202)

W9_Programming_Qs-1 (/noc23_cs50/progassignment? name=204)

W9_Programming_Qs-2 (/noc23_cs50/progassignment? name=205)

Private Test cases used for Evaluation	Status	
Test Case 1	Passed	

W9_Programming_Qs-3
 (/noc23_cs50/progassignment? name=207)
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