Consolidated Assignment 8 Report

This report contains the graded results for the newest of each exercise submitted to the assignment checker prior to 3/9/2022 12:05:59 AM PST.

Student Name: Phillip Ward Student ID: U09339367

Contact email: phillip.ward@seagate.com
C/C++ Programming I (Section 162461)

Submitted:

Exercise 0: 3/6/2022 2:49:14 PM PST Exercise 1: 3/5/2022 12:23:51 PM PST Exercise 2: 3/6/2022 2:55:53 PM PST

Score (out of 20 possible): <u>14.7</u>

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From: Phillip Ward <mailto:phillip.ward@seagate.com>

Subject: C1A8E0_162461_U09339367 Submitted: 3/6/2022 2:49:14 PM PST

Course: C/C++ Programming I (Section 162461)

Student's name: Phillip Ward

Contact email: phillip.ward@seagate.com

Student ID: U09339367

Assignment 8, Exercise 0 (003285666M01005X40285)

Exercise point value: 6

File submitted:
 C1A8E0_Quiz.txt

NOTE: The assignment checker does not check the correctness of answers for this exercise.

Your submission has been accepted and will be graded manually by the instructor. You may resubmit it as many times as you wish BEFORE THE ASSIGNMENT DEADLINE. NO CREDIT will be given for anything submitted after the deadline.

-4

Phillip Ward U09339367 Phillip.Ward@seagate.com C/C++ Programming I 162461 Ray Mitchell 03/06/2022 C1A8E0_Quiz.txt Quiz Answers

1. C <---E 2. E <---A 3. B <---D 4. B <---E 5. D

6. A

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From: Phillip Ward <mailto:phillip.ward@seagate.com> Subject: C1A8E1_162461_U09339367 Submitted: 3/5/2022 12:23:51 PM PST Course: C/C++ Programming I (Section 162461) Student's name: Phillip Ward Contact email: phillip.ward@seagate.com Student ID: U09339367 Assignment 8, Exercise 1 (001301924M01005X17301) Exercise point value: 6 Files submitted: C1A8E1 main.cpp C1A8E1_SavingsAccount.cpp C1A8E1_SavingsAccount.h "Static analysis" results: No "static" issues; "Runtime" results: Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);

******* C1 ASSIGNMENT 8 EXERCISE 1 AUTOMATIC PROGRAM RUN RESULTS *******
******** THE RESULTS BELOW HAVE BEEN PARTIALLY CHECKED AND NO ERRORS WERE FOUND. HOWEVER, THIS DOES NOT ********* NECESSARILY MEAN THAT THERE ARE NO ERRORS. THE INSTRUCTOR WILL DO A MORE THOROUGH CHECK DURING MANUAL GRADING. ********** ***********************
START OF 1ST RUN
<pre>input type: 80 input owner name: Big Spender input ID number: 123456789 input balance: .20 input penalty percent: 1.3</pre>
Account type: 80 Owner name: Big Spender ID number: 123456789 Account balance: 0.2 Account closure penalty percent: 1.3 Account closure penalty: 0.0026
END OF 1ST RUN
START OF 2ND RUN
<pre>input type: 9 input owner name: Elvis Clone input ID number: 2345780 input balance: 300e1 input penalty percent: 15</pre>
Account type: 9 Owner name: Elvis Clone ID number: 2345780 Account balance: 3000 Account closure penalty percent: 15 Account closure penalty: 450
END OF 2ND RUN
START OF 3RD RUN
<pre>input type: 32767 input owner name: Geezer input ID number: 789 input balance: .40 input penalty percent: 1.3</pre>
Account type: 32767 Owner name: Geezer ID number: 789 Account balance: 0.4 Account closure penalty percent: 1.3 Account closure penalty: 0.0052
END OF 3RD RUN

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Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);

"Runtime" results:

```
Graded C1A8 report for Phillip Ward (U09339367)
                                 C/C++ Programming I (Section 162461)
                                                                                          80 '
    //
1
     // Phillip Ward U09339367
 3
     // Phillip.Ward@seagate.com
    // C/C++ Programming I
 5
    // 162461 Ray Mitchell
 6
     // 03/05/2022
7
     // C1A8E2_main.cpp
8
    // Win10
 9
    // g++ 11.2.0
10
     // A program that finds and replaces user input phrases
11
12
13
14
     #include <iostream>
15
     #include <fstream>
16
     #include <cstring>
17
     using namespace std;
18
     const int BUF_SIZE = 100;
19
     const int IN_FILE_ARG = 1;
                                             When reading a file, an "end of file" condition occurs
20
     const int OUT FILE ARG = 2;
                                             during the read operation itself if at least the requested
     const int SEARCH_ARG = 3;
21
                                             number of number of characters are not available.
22
     const int REPLACE_ARG = 4;
                                             Reading and then using what you "assume" was read
23
     const int TOTAL_ARGS = 5;
24
     int main(int argc, char *argv[]/)
                                             without an intervening test is always wrong and the
25
     {
                                             results are unpredictable.
26
         //check for correct # of input args
27
         if (argc != TOTAL_ARGS)
28
29
              cerr << "Incorrect humber of input arguments";</pre>
30
              exit(1);
31
32
         //declare and open in file
         ifstream inFile(argv[IN_FILE_ARG]);
33
34
         char charBuf[BUF_$IZE];
35
         //check if the input file is open
36
         if (inFile.is_open())
37
         {
38
              //declare and open the out file
                                                                   There will not be a \n if the line is
              ofstream outFile(argv[OUT_FILE_ARG]);
39
                                                                   read by getline.
              //check if it opened properly
40
41
              if (outFile.is_open())
42
43
                  size_t jumpTo = strlen(argv[SEARCH_ARG]);
44
                  //While there are still characters in the infile
45
                  while (!inFile.eof())
46
                  {
47
                      char *cp1, *cp2;
                      inFile.getline(charBuf, BUF_SIZE);//get a line at a time
48
                      charBuf[strcspn(charBuf, "\n")] = '\0';//strip the newline char
49
                      //declare a pointer to the start of the character buffer and
50
                      //find the first character of the search string
51
52
                      for (cp1 = charBuf; cp2 = strstr(cp1, argv[SEARCH_ARG]);)
53
                      {
54
                           //write the beginning of the line
55
                           //through the start of the search phrase
56
                           outFile.write(cp1, cp2 - cp1);
57
                           //Write the replace phrase
58
                           outFile << argv[REPLACE_ARG];
59
                           //move the pointer to after the replace phrase
60
                           cp1 = cp2 + jumpTo;
                      }
61
```

******* C1 ASSIGNMENT 8 EXERCISE 3 AUTOMATIC PROGRAM RUN RESULTS *******
******* THE RESULTS BELOW HAVE BEEN PARTIALLY CHECKED AND ******** NO ERRORS WERE FOUND. HOWEVER, THIS DOES NOT NECESSARILY MEAN THAT THERE ARE NO ERRORS. THE ********* INSTRUCTOR WILL DO A MORE THOROUGH CHECK DURING MANUAL GRADING. ************ *********************
PURPOSE OF 1ST RUN
Verify "find and replace".
TestFile1.txt TestFile1_modified1.txt the "John Galt?"
< <your correctly="" file="" modified="">></your>
The number-sign or "stringizing" operator (#) converts macro parameters (after expansion) to string constants. It is used only with macros that take arguments. If it precedes a formal parameter in John Galt? macro definition, John Galt? actual argument passed by John Galt? macro invocation is enclosed in quotation marks and treated as a string literal. The string literal John Galt?n replaces each occurrence of a combination of John Galt? stringizing operator and formal parameter within John Galt? macro definition.
White space preceding John Galt? first token of John Galt? actual argument and following John Galt? last token of John Galt? actual argument is ignored. Any white space between John Galt? tokens in John Galt? actual argument is reduced to a single white space in John Galt? resulting string literal. Thus, if a comment occurs between two tokens in John Galt? actual argument, it is reduced to a single white space. The resulting string literal is automatically concatenated with any adjacent string literals from which it is separated only by white space.
END OF 1ST RUN
< <your correctly="" file="" modified="">></your>
The number-sign or "stringizing" operator (#) converts macro

The number-sign or "stringizing" operator (#) converts macro parameters (after expansion) to string constants. It is used only with macros that take arguments. If it precedes a formal parameter in the macro definition, the actual argument passed by the macro invocation is enclosed in quotation marks and treated as a TESTING. The TESTING then replaces each occurrence of a combination of the stringizing operator and formal parameter within the macro definition.

White space preceding the first token of the actual argument and following the last token of the actual argument is ignored. Any white space between the tokens in the actual argument is reduced to a single white space in the resulting TESTING. Thus, if a comment occurs between two tokens in the actual

argument, it is reduced to a single white space. The resulting

TESTING is automatically concatenated with any adjacent TESTINGs from which it is separated only by white space. Verify "find and replace". ----- COMMAND LINE ARGUMENTS FOR 3RD RUN -----------TestFile1.txt TestFile1_modified3.txt d "X y Z" <<YOUR CORRECTLY MODIFIED FILE>> The number-sign or "stringizing" operator (#) converts macro parameters (after expansion) to string constants. It is useX y Z only with macros that take arguments. If it preceX y Zes a formal parameter in the macro X y Zefinition, the actual argument passeX y Z by the macro invocation is encloseX y Z in quotation marks anX y Z treateX y Z as a string literal. The string literal then replaces each occurrence of a combination of the stringizing operator anX y Z formal parameter within the macro X y Zefinition. White space preceX y Zing the first token of the actual argument anX y Z following the last token of the actual argument is ignoreX y Z. Any white space between the tokens in the actual argument is reX y ZuceX y Z to a single white space in the resulting string literal. Thus, if a comment occurs between two tokens in the actual argument, it is reX y ZuceX y Z to a single white space. The resulting string literal is automatically concatenateX y Z with any aX y Zjacent string literals from which it is separateX y Z only by white space. Verify "find and replace". ----- COMMAND LINE ARGUMENTS FOR 4TH RUN ----------mFile3.txt TestFile1_modified4.txt input output ----- START OF 4TH RUN --------<<EMPTY FILE - YOUR RESULTS WERE CORRECT>> Verify that program detects an input file open failure. ----- COMMAND LINE ARGUMENTS FOR 5TH RUN ---------bad//file//a TestFile1_modified4.txt 1 2 File: bad//file//a could not be opened ----- END OF 5TH RUN ------Verify that program detects an output file open failure. ----- COMMAND LINE ARGUMENTS FOR 6TH RUN -------

TestFile1.txt bad//file//b 3 4 START OF 6TH RUN
File: bad//file//b could not be opened
END OF 6TH RUN
Incorrect number of input arguments END OF 7TH RUN
Incorrect number of input arguments END OF 8TH RUN
< <test passed="">></test>
END OF 9TH RUN