Consolidated Assignment 2 Report

This report contains the graded results for the newest of each exercise submitted to the assignment checker prior to 1/26/2022 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: 1/23/2022 2:07:16 PM PST Exercise 1: 1/23/2022 4:22:44 PM PST Exercise 2: 1/23/2022 3:36:33 PM PST Exercise 3: 1/23/2022 4:07:35 PM PST

Credit to be deducted for uncorrected assignment checker issue(s):

Exercise 1: 1.2 points (~25%) minimum Exercise 2: 0.0 points (0%) minimum Exercise 3: 0.0 points (0%) minimum

Score (out of 20 possible): ___16___

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

Subject: C1A2E0_162461_U09339367 Submitted: 1/23/2022 2:07:16 PM PST

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

Student's name: Phillip Ward

Contact email: phillip.ward@seagate.com

Student ID: U09339367

Assignment 2, Exercise 0 (003112338M01005X18112)

Exercise point value: 6

File submitted:
 C1A2E0_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.

-3

Phillip Ward U09339367
Phillip.Ward@seagate.com
C/C++ Programming I
162461 Ray Mitchell
01/23/2022
C1A2E0_Quiz.txt
Quiz Answers

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

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

```
Subject: C1A2E1 162461 U09339367
   Submitted: 1/23/2022 4:22:44 PM PST
   Course: C/C++ Programming I (Section 162461)
   Student's name: Phillip Ward
   Contact email: phillip.ward@seagate.com
   Student ID: U09339367
  Assignment 2, Exercise 1 (001696742M01005X78696)
   Exercise point value: 5
   File submitted:
      C1A2E1 main.cpp
"Static analysis" results:
    1 warning as follows:
       1 compiler warning (Microsoft compiler);
    1 recommendation;
"Runtime" results:
   Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);
STANDARD GRADING POLICY:
The MINIMUM deduction is the greater of the following for compile-time issues plus a
possible additional deduction for runtime issues, if any:
   100% if any "goto" statement is used, else
  ~45% if any compiler or linker error, else
  ~25% if any warning, else
  ~15% if any advisory, else
    0% if any recommendation.
C1A2E1: YOUR MINIMUM DEDUCTION: 1.2 points (~25%) To avoid deductions please correct
this exercise and resubmit to the assignment checker before the assignment deadline.
##### The Microsoft compiler found 1 problem. #####
(https://www.visualstudio.com/)
555555555
C1A2E1_main.cpp(27): warning C4244: 'initializing': conversion from 'int' to 'char',
possible loss of data
*** EXPLANATION ***
"Loss of data" occurs whenever an expression having an arithmetic type is converted to
a different arithmetic type that either cannot fully represent the original range of
values or cannot represent them as precisely. As an example of an out of range case,
on most implementations the range of type short is smaller than that of type long.
While conversions from long to short work fine for values within the range of short,
the result of out of range conversions is undefined. As an example of a loss of
precision case, on some implementations the number of significant digits that can be
represented by type float is less than for type int, even though the value range of
type float is much greater. As a result, conversions from int to float work fine if
enough of the low-order significant digits are 0s, but precision is lost if they are
not. A "loss of data" warning, however, does not mean that data will actually be lost,
```

because the compiler has no way of knowing the runtime values of variable expressions. Instead, the warning is merely a notification to the programmer that the possibility exists. It is every programmer's responsibility to know the range and precision of values his/her program is processing and select appropriate data types accordingly. To suppress this warning in cases where you are certain that loss of data will not actually occur, or that it is not detrimental if it does, cast the expression being converted to the type of the expression it is being converted to.

The custom validator found 1 problem.
(http://www.MeanOldTeacher.com/AssignmentCheckerKnownIssues.pdf)

C1A2E1_main.cpp(...) recommendation R151: "Landscape" page orientation detected NOTE: There will be no deduction for this but correction is recommended.

*** EXPLANATION ***

Of the 30 total lines in your file, 4 of them (13, 14, 15, and 28) exceed the 80 "portrait" orientation column limit. As a result "landscape" orientation has been selected instead, which allows 110 columns. However, portrait is more common and is usually preferred because shorter lines are more readable. Long lines are often caused by unnecessarily long identifier names, which may or may not be a problem in your code. The recommended 80-column limit can be accidentally exceeded if an editor does not provide a clear indication of which columns characters are in, but when configured properly any good code editor will provide it by either displaying column numbers directly, displaying a vertical column "guideline", highlighting characters that go past a specified column, etc. Please consult your editor's documentation to see if it can provide a convenient column number indication to help with your code formatting. If it cannot, I recommend using one that can.

Unnecessarily long names can result in:

- 1. autowraps
- 2. avoidable line splits
- 3. avoidable landscape page orientations
- 4. difficult to read code

******* C1 ASSIGNMENT 2 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 ************ *********** *********
START OF 1ST RUN
Enter any character: A The lowercase equivalent of 'A' is 'a'
END OF 1ST RUN
START OF 2ND RUN
Enter any character: Z The lowercase equivalent of 'Z' is 'z'
END OF 2ND RUN
START OF 3RD RUN
Enter any character: 1 The lowercase equivalent of '1' is 'Q' END OF 3RD RUN
START OF 4TH RUN
Enter any character: The lowercase equivalent of ' ' is '@'
END OF 4TH RUN
START OF 5TH RUN
Enter any character: ? The lowercase equivalent of '?' is '_'
END OF 5TH RUN
START OF 6TH RUN
Enter any character: @ The lowercase equivalent of '@' is '`'
END OF 6TH RUN
START OF 7TH RUN
<pre>Enter any character:] The lowercase equivalent of ']' is '}'</pre>
END OF 7TH RUN

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

```
Subject: C1A2E2 162461 U09339367
   Submitted: 1/23/2022 3:36:33 PM PST
   Course: C/C++ Programming I (Section 162461)
   Student's name: Phillip Ward
   Contact email: phillip.ward@seagate.com
   Student ID: U09339367
  Assignment 2, Exercise 2 (002803549M01005X30803)
   Exercise point value: 5
   File submitted:
      C1A2E2 main.c
"Static analysis" results:
    1 recommendation;
"Runtime" results:
   Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);
STANDARD GRADING POLICY:
The MINIMUM deduction is the greater of the following for compile-time issues plus a
possible additional deduction for runtime issues, if any:
   100% if any "goto" statement is used, else
  ~45% if any compiler or linker error, else
  ~25% if any warning, else
  ~15% if any advisory, else
     0% if any recommendation.
C1A2E2: YOUR MINIMUM DEDUCTION: 0.0 points (0%)
##### The custom validator found 1 problem. #####
(http://www.MeanOldTeacher.com/AssignmentCheckerKnownIssues.pdf)
555555555
C1A2E2 main.c(...) recommendation R151: "Landscape" page orientation detected
NOTE: There will be no deduction for this but correction is recommended.
*** EXPLANATION ***
Of the 32 total lines in your file, 1 of them (24) exceeds the 80 "portrait"
orientation column limit. As a result "landscape" orientation has been selected
instead, which allows 110 columns. However, portrait is more common and is usually
preferred because shorter lines are more readable. Because none of your code exceeds
80 columns, neither should your comments. Long lines are often caused by unnecessarily
long identifier names, which may or may not be a problem in your code. The recommended
80-column limit can be accidentally exceeded if an editor does not provide a clear
indication of which columns characters are in, but when configured properly any good
code editor will provide it by either displaying column numbers directly, displaying a
vertical column "guideline", highlighting characters that go past a specified column,
     Please consult your editor's documentation to see if it can provide a convenient
column number indication to help with your code formatting. If it cannot, I recommend
using one that can.
```

******* C1 ASSIGNMENT 2 EXERCISE 2 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. ***********************************
<pre>input any positive decimal integer:2 #@ @</pre>
END OF 1ST RUN
CODE CHANGES FOR 2ND RUN
LEADER_CHAR = '#' & DIAGONAL_CHAR = '@' START OF 2ND RUN
<pre>input any positive decimal integer:4 ###@ ##@ #@ #@ @</pre>
END OF 2ND RUN
CODE CHANGES FOR 3RD RUN
<pre>input any positive decimal integer:1 =</pre>
END OF 3RD RUN
CODE CHANGES FOR 4TH RUN
<pre>input any positive decimal integer:10 .</pre>
· ·
· ·
•
END OF 4TH RUN
CODE CHANGES FOR 5TH RUN

			9	START	OF	5TH	RUN	
input any +++++	positive	decimal	inte	ger:6				
+++++								
++++								
+++								
++								
+								
				END (OF !	5TH I	RUN -	

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

Subject: C1A2E3 162461 U09339367

```
Submitted: 1/23/2022 4:07:35 PM PST
   Course: C/C++ Programming I (Section 162461)
   Student's name: Phillip Ward
   Contact email: phillip.ward@seagate.com
   Student ID: U09339367
  Assignment 2, Exercise 3 (002519354M01005X83519)
   Exercise point value: 4
   File submitted:
      C1A2E3 main.cpp
"Static analysis" results:
    1 recommendation:
"Runtime" results:
   Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);
STANDARD GRADING POLICY:
The MINIMUM deduction is the greater of the following for compile-time issues plus a
possible additional deduction for runtime issues, if any:
   100% if any "goto" statement is used, else
  ~45% if any compiler or linker error, else
  ~25% if any warning, else
  ~15% if any advisory, else
     0% if any recommendation.
C1A2E3: YOUR MINIMUM DEDUCTION: 0.0 points (0%)
##### The custom validator found 1 problem. #####
(http://www.MeanOldTeacher.com/AssignmentCheckerKnownIssues.pdf)
555555555
C1A2E3_main.cpp(...) recommendation R151: "Landscape" page orientation detected
NOTE: There will be no deduction for this but correction is recommended.
*** EXPLANATION ***
Of the 34 total lines in your file, 1 of them (26) exceeds the 80 "portrait"
orientation column limit. As a result "landscape" orientation has been selected
instead, which allows 110 columns. However, portrait is more common and is usually
preferred because shorter lines are more readable. Because none of your code exceeds
80 columns, neither should your comments. Long lines are often caused by unnecessarily
long identifier names, which may or may not be a problem in your code. The recommended
80-column limit can be accidentally exceeded if an editor does not provide a clear
indication of which columns characters are in, but when configured properly any good
code editor will provide it by either displaying column numbers directly, displaying a
vertical column "guideline", highlighting characters that go past a specified column,
     Please consult your editor's documentation to see if it can provide a convenient
column number indication to help with your code formatting. If it cannot, I recommend
using one that can.
```

******* C1 ASSIGNMENT 2 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. ***********************************
LEADER_CHAR = '#' & DIAGONAL_CHAR = '@'
Enter any positive decimal integer: 2 #@ @
END OF 1ST RUN
CODE CHANGES FOR 2ND RUN
Enter any positive decimal integer: 4 ###@ ##@ #@ @
END OF 2ND RUN
CODE CHANGES FOR 3RD RUN
<pre>Enter any positive decimal integer: 1 =</pre>
END OF 3RD RUN
CODE CHANGES FOR 4TH RUN
Enter any positive decimal integer: 10
•
END OF 4TH RUN
CODE CHANGES FOR 5TH RUN

			- STAR	T OF	5TH	RUN	V
Enter any	positive	decimal in	teger:	6			
+++++							
++++							
+++							
++							
+							
			END	OF	5TH	RUN	