

## Consolidated Assignment 2 Report

This report contains the graded results for the newest of each exercise submitted to the assignment checker prior to 4/15/2020 1:08:59 PM PDT.

Student Name: Shaun Chemplavil

Student ID: U08713628

Contact e-mail: shaun.chemplavil@gmail.com

C/C++ Programming I (Section 146359)

### Submitted:

Exercise 0: 4/3/2020 8:37:39 AM PDT

Exercise 1: 4/3/2020 4:44:58 PM PDT

Exercise 2: 4/10/2020 1:52:39 PM PDT

Exercise 3: 4/10/2020 1:57:17 PM PDT

Score (out of 20 possible): 19

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For help please contact the instructor at the email address provided on the  
"Announcements" page of the course website. The assignment checker DOES NOT GRADE your  
submissions but merely reports on issues so you can correct them and resubmit, thereby  
avoiding unnecessary credit loss. ALL GRADING IS DONE MANUALLY BY THE INSTRUCTOR after  
the assignment deadline based solely upon the NEWEST submission of each exercise. BE  
WARY of correcting minor issues after the deadline because a late deduction will  
usually be much greater than a minor issue deduction.

From: Shaun Chemplavil <mailto:schemp98@hotmail.com>  
Subject: C1A2E0\_U08713628  
Submitted: 4/3/2020 8:37:39 AM PDT  
Course: C/C++ Programming I (Section 146359)  
Student's name: Shaun Chemplavil  
Contact email: schemp98@hotmail.com  
Student ID: U08713628  
Assignment 2, Exercise 0  
Exercise point value: 6  
File submitted:  
C1A2E0\_Quiz.txt

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

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. BE WARY of  
correcting minor issues after the deadline because a late deduction will usually be  
much greater than a minor issue deduction.

**-1**

Shaun Chemplavil U08713628

schemp98@hotmail.com

C/C++ Programming I : Fundamental Programming Concepts

146359 Raymond L. Mitchell, Jr., M.S.

04/03/2020

C1A2E0\_Quiz.txt

Answers to Quiz 2

1. E

**2. B** <---C

3. E

4. B

5. A

6. D

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usually be much greater than a minor issue deduction.

From: Shaun Chemplavil <mailto:schemp98@hotmail.com>  
Subject: C1A2E1\_U08713628  
Submitted: 4/3/2020 4:44:58 PM PDT  
Course: C/C++ Programming I (Section 146359)  
Student's name: Shaun Chemplavil  
Contact email: schemp98@hotmail.com  
Student ID: U08713628  
Assignment 2, Exercise 1  
Exercise point value: 5  
File submitted:  
    C1A2E1\_main.cpp

"Compile-time" results:

    No "compile-time" issues;

"Run-time" results:

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

```

1  //
2  // Shaun Chemplavil U08713628
3  // schemp98@hotmail.com
4  // C / C++ Programming I : Fundamental Programming Concepts
5  // 146359 Raymond L.Mitchell, Jr., M.S.
6  // 04 / 03 / 2020
7  // C1A2E1_main.cpp
8  // Win10
9  // Visual C++ 19.0
10 //
11 // This file converts a user-input character to lowercase
12 // This is accomplished by adding "TO_LOWER" to the integer value of the input
13 // ("TO_LOWER" = '32' is the difference between upper and lower case letters
14 //   Code entries in the ASCII table)
15 // Off-nominal Case 1: If a non-Uppercase character is entered, the character
16 //                      32 codes higher than the entered character will be output
17 // Off-nominal Case 2: If a white-space character is entered, the character
18 //                      32 codes higher than the FIRST whitespace character
19 //                      entered will be output
20 //
21
22 #include <iostream>
23 using namespace std;
24
25 int main()
26 {
27     // Set variable to convert from upper to lowercase
28     const int TO_LOWER = 'a' - 'A';
29     char ch;
30
31     cout << "Enter any character: ";
32
33     // Grab character from user
34     cin.get(ch);
35
36     // Convert to lowercase (by adding ASCII Code offset) and output to screen
37     cout
38     << "\nThe lowercase equivalent of '" << ch << "' is '"
39     << char(ch + TO_LOWER) << "'\n";
40
41     return 0;
42 }

```

\*\*\*\*\* 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 *****
***** THE INSTRUCTOR WILL DO A MORE THOROUGH CHECK *****
***** DURING MANUAL GRADING. *****
```

----- 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 -----

Enter any character: ]

The lowercase equivalent of ']' is '}'

----- END OF 7TH RUN -----

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usually be much greater than a minor issue deduction.

From: <mailto:shaun.chemplavil@gmail.com>  
Subject: C1A2E2\_U08713628  
Submitted: 4/10/2020 1:52:39 PM PDT  
Course: C/C++ Programming I (Section 146359)  
Student's name: Shaun Chemplavil  
Contact email: shaun.chemplavil@gmail.com  
Student ID: U08713628  
Assignment 2, Exercise 2  
Exercise point value: 5  
File submitted:  
    C1A2E2\_main.c

"Compile-time" results:

    No "compile-time" issues;

"Run-time" results:

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



```
1  //
2  // Shaun Chemplavil U08713628
3  // shaun.chemplavil@gmail.com
4  // C / C++ Programming I : Fundamental Programming Concepts
5  // 146359 Raymond L. Mitchell Jr.
6  // 04 / 10 / 2020
7  // C1A2E2_main.c
8  // Win10
9  // Visual C++ 19.0
10 //
11 // This file will take user integer input (input), and display a triangle of
12 // characters on the screen
13 //
14
15 #include <stdio.h>
16
17 // Set Character to illustrate the "diagonal" of the triangle
18 #define DIAGONAL_CHAR '\\'
19 // Set the Most Significant Bit value Neither bits nor bytes enter into this exercise
20 #define RADIX 10 algorithm.
21
22 int main(void)
23 {
24     // Declare User Input (input) and Display Character (disp_char)
25     int input, disp_char;
26
27     // Request and Store User Input
28     printf("Enter any positive integer value: ");
29     scanf("%d", &input);
30
31     // Set the first character to be displayed
32     disp_char = input;
33
34     // Display triangle
35     // loop that controls current row display
36     for (int row_idx = 0; row_idx < input; ++row_idx)
37     {
38         // loop that controls current column display
39         for (int col_idx = 0; col_idx < row_idx; ++col_idx)
40         {
41             // Print Current 'disp_char', increment, and enforce RADIX
42             printf("%d", disp_char++ % RADIX);
43         }
44         // Add DIAGONAL_CHAR
45         printf("%c\n", DIAGONAL_CHAR);
46     }
47     return 0;
48 }
```

What does this mean?

\*\*\*\*\* 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 *****
***** THE INSTRUCTOR WILL DO A MORE THOROUGH CHECK *****
***** DURING MANUAL GRADING. *****
```

```
----- CODE CHANGES FOR 1ST RUN -----
DIAGONAL_CHAR = '@'
----- START OF 1ST RUN -----
```

Enter any positive integer value: 2

@  
2@

```
----- END OF 1ST RUN -----
```

```
----- CODE CHANGES FOR 2ND RUN -----
DIAGONAL_CHAR = '@'
----- START OF 2ND RUN -----
```

Enter any positive integer value: 4

@  
4@  
56@  
789@

```
----- END OF 2ND RUN -----
```

```
----- CODE CHANGES FOR 3RD RUN -----
DIAGONAL_CHAR = '='
----- START OF 3RD RUN -----
```

Enter any positive integer value: 1

=

```
----- END OF 3RD RUN -----
```

```
----- CODE CHANGES FOR 4TH RUN -----
DIAGONAL_CHAR = ' .'
----- START OF 4TH RUN -----
```

Enter any positive integer value: 10

.  
0.  
12.  
345.  
6789.  
01234.  
567890.  
1234567.  
89012345.  
678901234.

```
----- END OF 4TH RUN -----
```

```
----- CODE CHANGES FOR 5TH RUN -----
DIAGONAL_CHAR = '+'
```

----- START OF 5TH RUN -----

Enter any positive integer value: 6

+

6+

78+

901+

2345+

67890+

----- END OF 5TH RUN -----

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usually be much greater than a minor issue deduction.

From: <mailto:shaun.chemplavil@gmail.com>  
Subject: C1A2E3\_U08713628  
Submitted: 4/10/2020 1:57:17 PM PDT  
Course: C/C++ Programming I (Section 146359)  
Student's name: Shaun Chemplavil  
Contact email: shaun.chemplavil@gmail.com  
Student ID: U08713628  
Assignment 2, Exercise 3  
Exercise point value: 4  
File submitted:  
    C1A2E3\_main.cpp

"Compile-time" results:

    No "compile-time" issues;

"Run-time" results:

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

```
1 //
2 // Shaun Chemplavil U08713628
3 // shaun.chemplavil@gmail.com
4 // C / C++ Programming I : Fundamental Programming Concepts
5 // 146359 Raymond L.Mitchell, Jr., M.S.
6 // 04 / 10 / 2020
7 // C1A2E3_main.cpp
8 // Win10
9 // Visual C++ 19.0
10 //
11 // This file will take user integer input, and display a triangle of
12 // characters on the screen
13 //
14
15 #include <iostream>
16 using namespace std;
17
18 // Set Character to illustrate the "diagonal" of the triangle
19 const char DIAGONAL_CHAR = '\\';
20 // Declare and set RADIX;
21 const int RADIX = 10;
22
23 int main()
24 {
25     // Declare User Input (input) and Display Character (disp_char)
26     int input, disp_char;
27
28     // Request and Store User Input
29     cout << "Enter any positive integer value: ";
30     cin >> input;
31
32     // Set the first character to be displayed
33     disp_char = input;
34
35     // Display triangle
36     // loop that controls current row display
37     for (int row_idx = 0; row_idx < input; ++row_idx)
38     {
39         // loop that controls current column display
40         for (int col_idx = 0; col_idx < row_idx; ++col_idx)
41         {
42             // Print Current 'disp_char', increment, and enforce RADIX
43             cout << disp_char++ % RADIX;
44         }
45         // Add DIAGONAL_CHAR
46         cout << DIAGONAL_CHAR << '\n';
47     }
48     return 0;
49 }
```

\*\*\*\*\* 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 *****
***** THE INSTRUCTOR WILL DO A MORE THOROUGH CHECK *****
***** DURING MANUAL GRADING. *****
```

```
----- CODE CHANGES FOR 1ST RUN -----
DIAGONAL_CHAR = '@'
----- START OF 1ST RUN -----
```

Enter any positive integer value: 2

@  
2@

```
----- END OF 1ST RUN -----
```

```
----- CODE CHANGES FOR 2ND RUN -----
DIAGONAL_CHAR = '@'
----- START OF 2ND RUN -----
```

Enter any positive integer value: 4

@  
4@  
56@  
789@

```
----- END OF 2ND RUN -----
```

```
----- CODE CHANGES FOR 3RD RUN -----
DIAGONAL_CHAR = '='
----- START OF 3RD RUN -----
```

Enter any positive integer value: 1

=

```
----- END OF 3RD RUN -----
```

```
----- CODE CHANGES FOR 4TH RUN -----
DIAGONAL_CHAR = ' .'
----- START OF 4TH RUN -----
```

Enter any positive integer value: 10

.  
0.  
12.  
345.  
6789.  
01234.  
567890.  
1234567.  
89012345.  
678901234.

```
----- END OF 4TH RUN -----
```

```
----- CODE CHANGES FOR 5TH RUN -----
DIAGONAL_CHAR = '+'
```

----- START OF 5TH RUN -----

Enter any positive integer value: 6

+

6+

78+

901+

2345+

67890+

----- END OF 5TH RUN -----