Consolidated Assignment 3 Report

This report contains the graded results for the newest of each exercise submitted to the assignment checker prior to 4/22/2020 1:40:31 PM PDT.

Student Name: Shaun Chemplavil

Student ID: U08713628

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C/C++ Programming I (Section 146359)

Submitted:

Exercise 0: 4/7/2020 4:47:04 PM PDT Exercise 1: 4/7/2020 7:43:46 PM PDT Exercise 2: 4/18/2020 8:01:12 AM PDT Exercise 3: 4/18/2020 8:00:44 AM PDT

Score (out of 20 possible): _______

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From: <mailto:shaun.chemplavil@gmail.com>

Subject: C1A3E0 U08713628

Submitted: 4/7/2020 4:47:04 PM PDT

Course: C/C++ Programming I (Section 146359)

Student's name: Shaun Chemplavil

Contact email: shaun.chemplavil@gmail.com

Student ID: U08713628 Assignment 3, Exercise 0 Exercise point value: 6

File submitted:
 C1A3E0_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.

Shaun Chemplavil U08713628
shaun.chemplavil@gmail.com
C/C++ Programming I : Fundamental Programming Concepts
146359 Raymond L. Mitchell, Jr., M.S.
04/07/2020
C1A3E0_Quiz.txt
Answers to Quiz 3

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

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From: <mailto:shaun.chemplavil@gmail.com>
Subject: C1A3E1_U08713628
Submitted: 4/7/2020 7:43:46 PM PDT
Course: C/C++ Programming I (Section 146359)
Student's name: Shaun Chemplavil
Contact email: shaun.chemplavil@gmail.com
Student ID: U08713628
Assignment 3, Exercise 1
Exercise point value: 3
File submitted:
 C1A3E1_main.c

"Compile-time" results:
 No "compile-time" issues;
"Run-time" results:
 Program ran - No errors detected during preliminary testing (SEE ATTACHMENT);

```
******* C1 ASSIGNMENT 3 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 integer value >=0: 1
nbr cubic sum
 0
          0
 1
          1
 ----- END OF 1ST RUN ------
----- IMPLEMENTATION SPECIFICS FOR 2ND RUN -------
This test uses a 16-bit short, which overflows for cubic sums of values > 18.
The results for these values are not tested.
  ----- START OF 2ND RUN ------
Enter integer value >=0: 25
   cubic sum
 0
          0
 1
          1
 2
         9
 3
         36
 4
        100
 5
        225
 6
        441
 7
        784
 8
        1296
 9
        2025
10
        3025
11
       4356
12
       6084
13
       8281
14
       11025
15
       14400
16
       18496
17
       23409
18
       29241
19
      -29436
20
      -21436
21
      -12175
22
      -1527
23
      10640
24
      24464
25
      -25447
   ----- END OF 2ND RUN ------
----- IMPLEMENTATION SPECIFICS FOR 3RD RUN ------------
This test uses a 16-bit short, which overflows for cubic sums of values > 18.
```

The results for these values are not tested.

----- START OF 3RD RUN -----

Enter	integer	value	>=0:	36
-------	---------	-------	------	----

Enter nbr	integer value cubic sum	>=0:	36
0	0		
1	1		
2	9		
3	36		
4	100		
5	225		
6	441		
7	784		
8	1296		
9 10	2025		
10	3025 4356		
12	6084		
13	8281		
14	11025		
15	14400		
16	18496		
17	23409		
18	29241		
19	-29436		
20	-21436		
21	-12175		
22	-1527		
23	10640		
24 25	24464 -25447		
26	-23447 -7871		
27	11812		
28	-31772		
29	-7383		
30	19617		
31	-16128		
32	16640		
33	-12959		
34	26345		
35	3684		
36	-15196		

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

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```
Graded C1A3 report for Shaun Chemplavil (U08713628)
                                 C/C++ Programming I (Section 146359)
                                                                                           80
     //
 1
     // Shaun Chemplavil U08713628
     // shaun.chemplavil@gmail.com
    // C / C++ Programming I : Fundamental Programming Concepts
 5
     // 146359 Raymond L.Mitchell, Jr., M.S.
 6
     // 04 / 18 / 2020
 7
     // C1A3E2_main.cpp
 8
    // Win10
 9
    // Visual C++ 19.0
10
     // This file will take user integer input (inValue), and the reverse of it
11
12
     //
13
14
     #include <iostream>
15
     using namespace std;
16
17
     // Declare and set RADIX (base number of decimal system)
18
     const int RADIX = 10;
19
20
     int main()
21
22
        // Declare User Input (inValue)
23
        int inValue;
24
        // Flag to signal sign of input value
25
        bool isNeg;
26
27
        // Request and Store User Input
28
        cout << "Enter any decimal integer value: ";</pre>
29
        cin >> inValue;
30
31
        // Display Opening Phrase
32
        cout << "\"" << inValue << "\" in reverse is \"";</pre>
33
34
        // Track Original Sign of input
35
        isNeg = inValue < ∅;
36
37
        // Force to be positive
38
        if (isNeg)
39
40
            inValue = -inValue;
41
42
43
44
        do
45
46
            // Print Current Least Significant Bit
47
            cout << inValue % RADIX;</pre>
48
49
            // Remove the LSB
50
            inValue /= RADIX;
51
        } while (inValue != ∅);
52
53
        // Check if we need to display negative sign
        if (isNeg)
54
55
        {
56
            cout << "-";
57
        }
58
59
        cout << "\"\n";
60
        return 0;
     }
61
```

******* C1 ASSIGNMENT 3 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. ***********************************
START OF 1ST RUN
Enter any decimal integer value: 3987 "3987" in reverse is "7893"
END OF 1ST RUN
START OF 2ND RUN
Enter any decimal integer value: -2645 "-2645" in reverse is "5462-"
END OF 2ND RUN
START OF 3RD RUN
Enter any decimal integer value: 100 "100" in reverse is "001"
END OF 3RD RUN
START OF 4TH RUN
Enter any decimal integer value: 000120 "120" in reverse is "021"
END OF 4TH RUN
START OF 5TH RUN
Enter any decimal integer value: -0023 "-23" in reverse is "32-"
END OF 5TH RUN
START OF 6TH RUN
Enter any decimal integer value: 000 "0" in reverse is "0"
END OF 6TH RUN
START OF 7TH RUN
Enter any decimal integer value: 1010 "1010" in reverse is "0101"
END OF 7TH RUN
START OF 8TH RUN

Enter any decimal integer value: -1010 '-1010" in reverse is "0101-"
END OF 8TH RUN
START OF 9TH RUN
Enter any decimal integer value: -0007000 '-7000" in reverse is "0007-"
END OF 9TH RUN
START OF 10TH RUN
Enter any decimal integer value: 3 '3" in reverse is "3"
END OF 10TH RUN

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

```
Graded C1A3 report for Shaun Chemplavil (U08713628)
                                 C/C++ Programming I (Section 146359)
                                                                                            80 [
     //
 1
     // Shaun Chemplavil U08713628
 3
     // shaun.chemplavil@gmail.com
     // C / C++ Programming I : Fundamental Programming Concepts
 5
     // 146359 Raymond L.Mitchell, Jr., M.S.
 6
     // 04 / 18 / 2020
 7
     // C1A3E3_main.cpp
 8
     // Win10
 9
     // Visual C++ 19.0
10
     // This file will take user integer input (inValue), and the reverse of it
11
12
     //
13
                                                    Please don't comment the obvious. It just
14
     #include <iostream>
15
                                                    needlessly clutters your code.
     using namespace std;
16
17
     // Declare and set RADIX (base number of decimal system)
18
     const int RADIX = 10;
19
20
     int main()
21
22
        // Declare User Input (inValue), most significant digit (msd)
23
        int inValue, dividend, divisor = 1;
24
25
         // Request and Store User Input
26
         cout << "Enter any decimal integer value: ";</pre>
27
         cin >> inValue;
28
29
         // Display Opening Phrase
         cout << "\"" << inValue << "\" in words is \"";</pre>
30
31
32
         // Force to be positive AND display "minus"
33
        if (inValue < 0)</pre>
34
         {
35
            inValue = -inValue;
            cout << "minus";</pre>
36
37
         }
38
39
        dividend = inValue;
40
41
         // Find the power of ten of the input
42
        do
43
         {
44
            divisor *= RADIX;
45
            dividend /= RADIX;
46
         } while (dividend >= RADIX);
47
48
         dividend = inValue;
49
50
        do
51
52
            // Determine the most significant digit
53
            int msd = dividend / divisor;
54
55
            // Write out most significant digit in words
56
            switch (msd)
57
            {
58
               case 0:
59
                  cout << " zero";</pre>
60
                  break;
61
               case 1:
```

80

```
1
                     cout << " one";</pre>
 62
 63
                     break;
 64
                  case 2:
                     cout << " two";</pre>
 65
 66
                     break;
 67
                  case 3:
 68
                     cout << " three";</pre>
 69
                     break;
 70
                  case 4:
                     cout << " four";</pre>
 71
 72
                     break;
 73
                  case 5:
 74
                     cout << " five";</pre>
 75
                     break;
 76
                  case 6:
 77
                     cout << " six";</pre>
 78
                     break;
 79
                  case 7:
                     cout << " seven";</pre>
 80
 81
                     break;
 82
                  case 8:
 83
                     cout << " eight";</pre>
 84
                     break;
 85
                  case 9:
                     cout << " nine";</pre>
 86
 87
                     break;
 88
                  default:
 89
                     cout << " UNRECOGNIZED DIGIT";</pre>
              }
 90
 91
 92
              // reduce the most significant digit
 93
              dividend -= msd * divisor;
 94
 95
              // Remove the LSB
 96
              divisor /= RADIX;
 97
           } while (divisor != 0);
 98
 99
          cout << "\"\n";
100
          return 0;
101
```

******* C1 ASSIGNMENT 3 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. ***********************************
START OF 1ST RUN
Enter any decimal integer value: 3987 "3987" in words is " three nine eight seven"
END OF 1ST RUN
START OF 2ND RUN
Enter any decimal integer value: -2645 "-2645" in words is "minus two six four five"
END OF 2ND RUN
START OF 3RD RUN
Enter any decimal integer value: 100 "100" in words is " one zero zero"
END OF 3RD RUN
START OF 4TH RUN
Enter any decimal integer value: 000120 "120" in words is " one two zero"
END OF 4TH RUN
START OF 5TH RUN
Enter any decimal integer value: -0023 "-23" in words is "minus two three"
END OF 5TH RUN
START OF 6TH RUN
Enter any decimal integer value: 000 "0" in words is " zero zero"
END OF 6TH RUN
START OF 7TH RUN
Enter any decimal integer value: 1010 "1010" in words is " one zero one zero"
END OF 7TH RUN
START OF 8TH RUN

Enter any decimal integer value: -1010 "-1010" in words is "minus one zero one zero"
END OF 8TH RUN
START OF 9TH RUN
Enter any decimal integer value: 3 "3" in words is " zero three"
END OF 9TH RUN