C:\Users\chgan\Documents\OneDrive\Area.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp

```
1   #include <iostream>
2   #include <cmath>
3
4   void calculateCircleArea() {
5       double radius;
6       std::cout << "Enter the radius of the circle: ";
7       std::cin >> radius;
8       double area = M_PI * radius * radius;
9       std::cout << "The area of the circle is: " << area << std::endl;
10  }
11
12  void calculateRectangleArea() {
13      double length, width;
14      std::cout << "Enter the length and width of the rectangle: ";
15      std::cin >> length >> width;
16      double area = length * width;
17      std::cout << "The area of the rectangle is: " << area << std::endl;
18  }
19
20  void calculateTriangleArea() {
21      double base, height;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

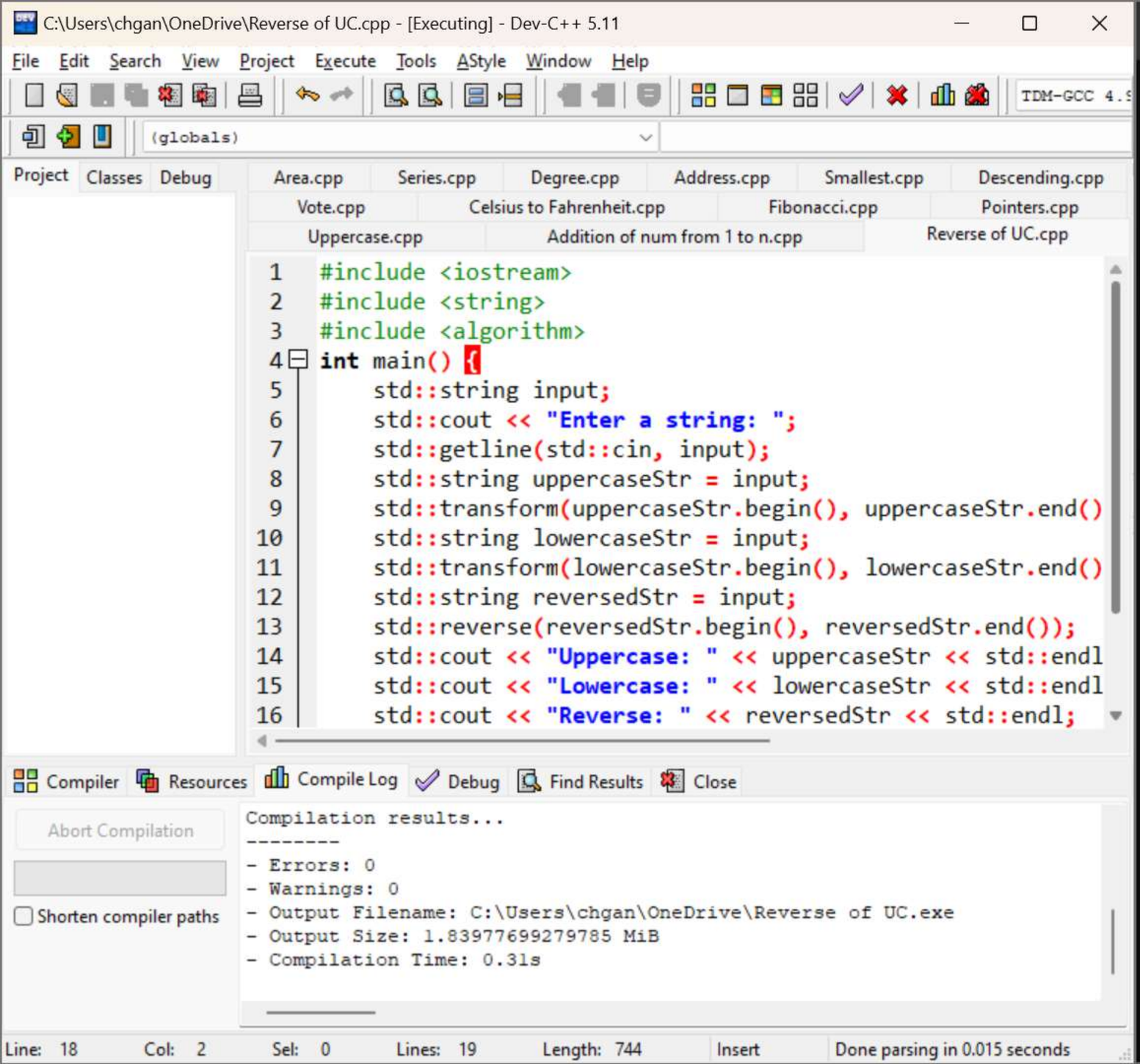
```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\Documents\OneDrive\Area.exe
- Output Size: 1.83324432373047 MiB
- Compilation Time: 1.41s
```

Line: 1 Col: 1 Sel: 0 Lines: 60 Length: 1810 Insert Done parsing in 0.625 seconds

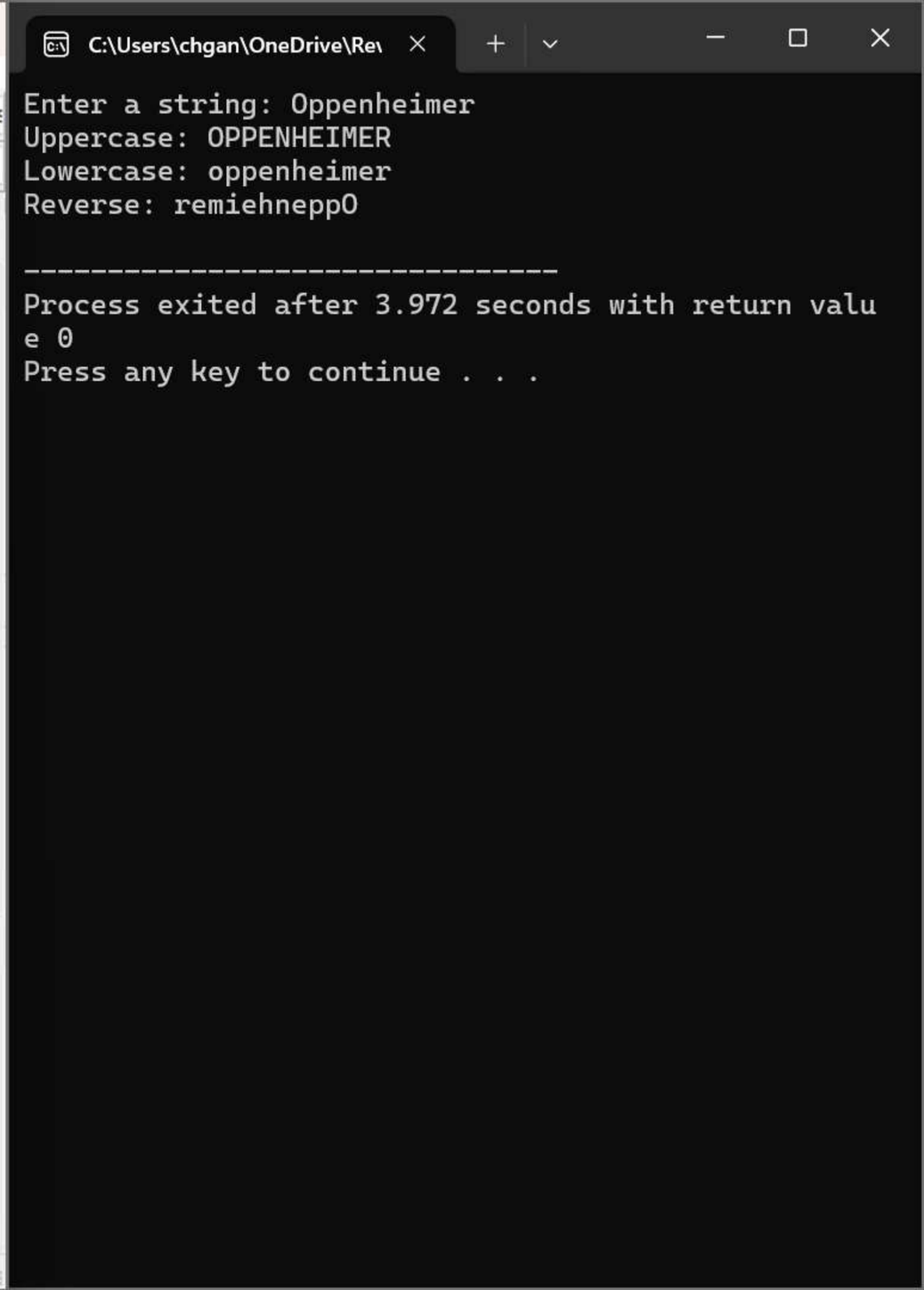
C:\Users\chgan\Documents\C

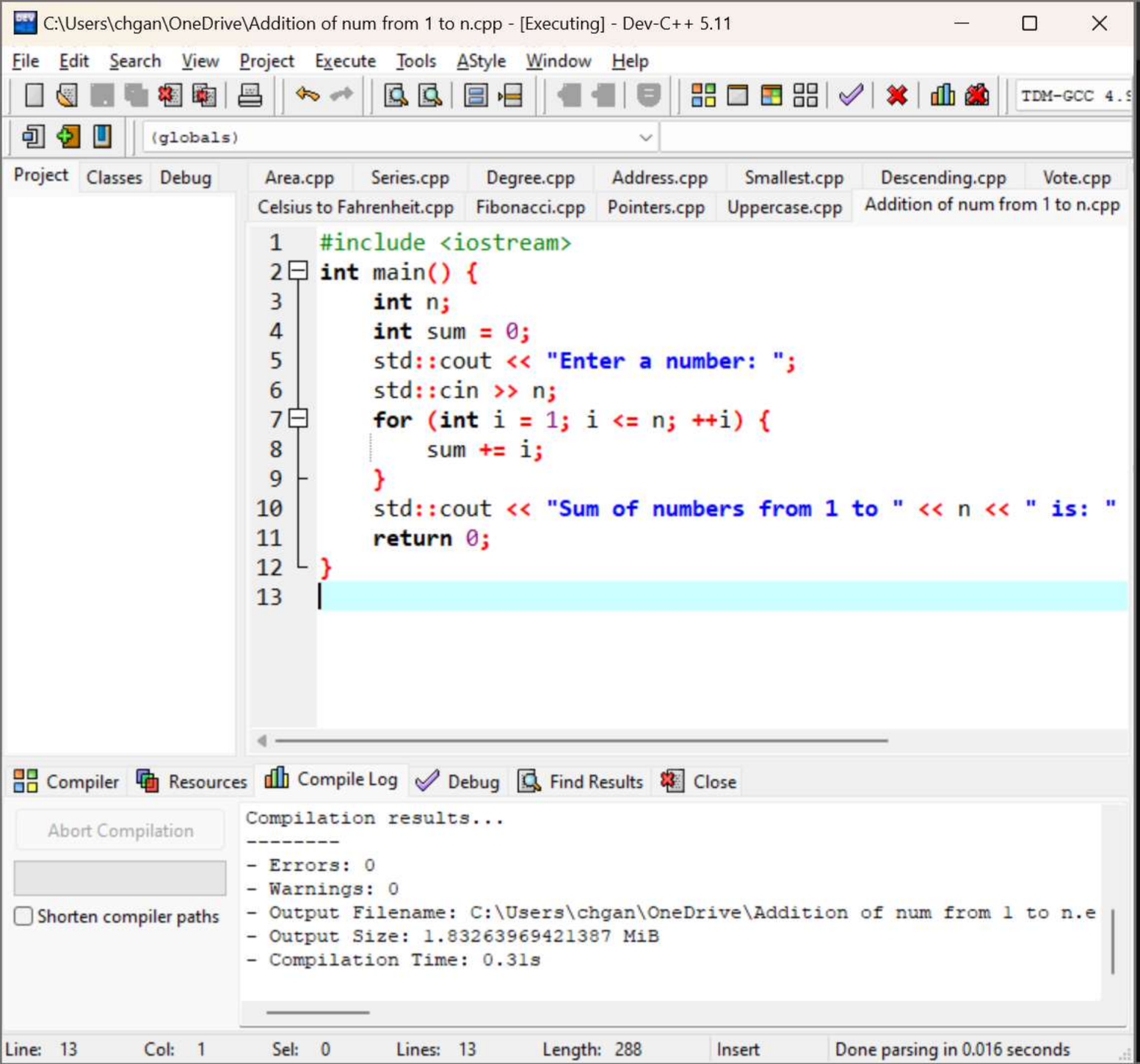
```
Choose the shape to calculate the area:
1. Circle
2. Rectangle
3. Triangle
4. Exit
Enter your choice: 3
Enter the base and height of the triangle: 1
2
The area of the triangle is: 1

Choose the shape to calculate the area:
1. Circle
2. Rectangle
3. Triangle
4. Exit
Enter your choice:
```

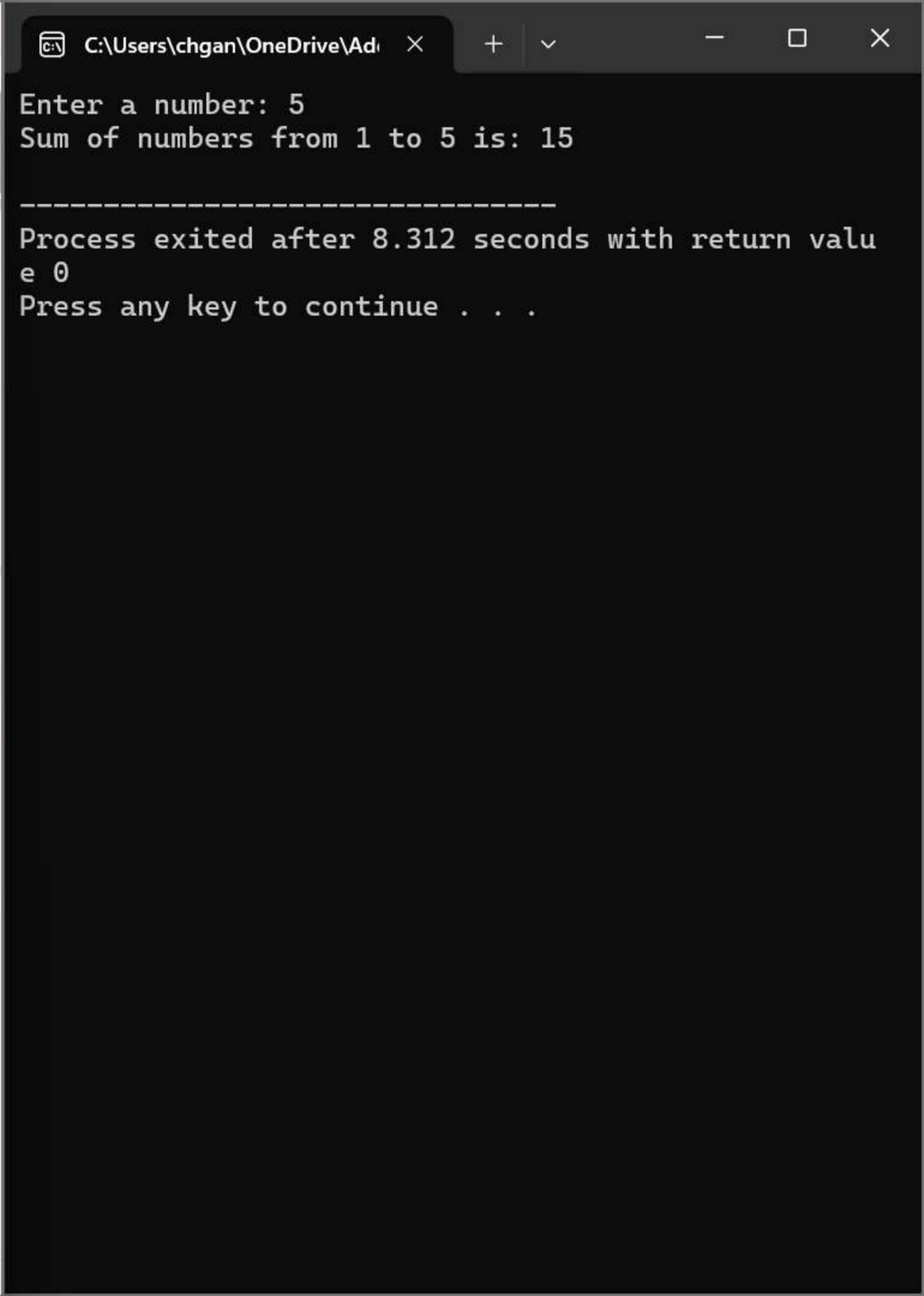

C:\Users\chgan\OneDrive\Reverse of UC.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9
(globals)
Project Classes Debug
Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp
Vote.cpp Celsius to Fahrenheit.cpp Fibonacci.cpp Pointers.cpp
Uppercase.cpp Addition of num from 1 to n.cpp Reverse of UC.cpp
1 #include <iostream>
2 #include <string>
3 #include <algorithm>
4 int main() {
5 std::string input;
6 std::cout << "Enter a string: ";
7 std::getline(std::cin, input);
8 std::string uppercaseStr = input;
9 std::transform(uppercaseStr.begin(), uppercaseStr.end()
10 std::string lowercaseStr = input;
11 std::transform(lowercaseStr.begin(), lowercaseStr.end()
12 std::string reversedStr = input;
13 std::reverse(reversedStr.begin(), reversedStr.end());
14 std::cout << "Uppercase: " << uppercaseStr << std::endl
15 std::cout << "Lowercase: " << lowercaseStr << std::endl
16 std::cout << "Reverse: " << reversedStr << std::endl;
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Reverse of UC.exe
- Output Size: 1.83977699279785 MiB
- Compilation Time: 0.31s
Line: 18 Col: 2 Sel: 0 Lines: 19 Length: 744 Insert Done parsing in 0.015 seconds


C:\Users\chgan\OneDrive\Re
Enter a string: Oppenheimer
Uppercase: OPPENHEIMER
Lowercase: oppenheimer
Reverse: remiehneppO
Process exited after 3.972 seconds with return valu
e 0
Press any key to continue . . .


C:\Users\chgan\OneDrive\Addition of num from 1 to n.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp
Celsius to Fahrenheit.cpp Fibonacci.cpp Pointers.cpp Uppercase.cpp Addition of num from 1 to n.cpp
1 #include <iostream>
2 int main() {
3 int n;
4 int sum = 0;
5 std::cout << "Enter a number: ";
6 std::cin >> n;
7 for (int i = 1; i <= n; ++i) {
8 sum += i;
9 }
10 std::cout << "Sum of numbers from 1 to " << n << " is: "
11 return 0;
12 }
13
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Addition of num from 1 to n.e
- Output Size: 1.83263969421387 MiB
- Compilation Time: 0.31s
Line: 13 Col: 1 Sel: 0 Lines: 13 Length: 288 Insert Done parsing in 0.016 seconds


C:\Users\chgan\OneDrive\Ad
Enter a number: 5
Sum of numbers from 1 to 5 is: 15
Process exited after 8.312 seconds with return valu
e 0
Press any key to continue . . .

C:\Users\chgan\OneDrive\Uppercase.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahren

```cpp
#include <iostream>
#include <string>
#include <cctype>
int countUppercase(const std::string& str) {
    int count = 0;
    for (std::size_t i = 0; i < str.size(); ++i) {
        if (std::isupper(str[i])) {
            ++count;
        }
    }
    return count;
}
int main() {
    // Input string
    std::string str = "C++ is a Programming Language";
    int uppercaseCount = countUppercase(str);
    std::cout << "Number of uppercase alphabets: " << upperca
    return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Uppercase.exe
- Output Size: 1.83582210540771 MiB
- Compilation Time: 0.30s
```

Line: 3 Col: 18 Sel: 0 Lines: 19 Length: 516 Insert Done parsing in 0.016 seconds

C:\Users\chgan\OneDrive\Up

```
Number of uppercase alphabets: 3

--------------------------------
Process exited after 0.08051 seconds with return va
lue 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Pointers.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp | Series.cpp | Degree.cpp | Address.cpp | Smallest.cpp

Descending.cpp | Vote.cpp | Celsius to Fahrenheit.cpp | Fibonacci.cpp | Pointers.cpp

```cpp
#include <iostream>
#include <algorithm>
int compare(const void* a, const void* b) {
    return (*(int*)a - *(int*)b);
}
int main() {
    int n;
    std::cout << "Enter the number of elements: ";
    std::cin >> n;
    int* arr = new int[n];
    std::cout << "Enter the elements:" << std::endl;
    for (int i = 0; i < n; ++i) {
        std::cin >> arr[i];
    }
    std::qsort(arr, n, sizeof(int), compare);    std::cout
    for (int i = 0; i < n; ++i) {
        std::cout << *(arr + i) << " ";
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Pointers.exe
- Output Size: 1.83330821990967 MiB
- Compilation Time: 0.34s
```

Line: 5 Col: 2 Sel: 0 Lines: 22 Length: 622 Insert Done parsing in 0.015 seconds

C:\Users\chgan\OneDrive\Poi

```
Enter the number of elements: 3
Enter the elements:
33
44
55
Sorted elements:
33 44 55

--------------------------------
Process exited after 6.513 seconds with return valu
e 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Fibonacci.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahren

```cpp
#include <iostream>
int fibonacci(int n) {
    if (n <= 0) return 0;
    if (n == 1) return 1;
    int a = 0;
    int b = 1;
    int fib = 1;
    for (int i = 2; i <= n; ++i) {
        fib = a + b;
        a = b;
        b = fib;
    }
    return fib;
}
std::string getOrdinalSuffix(int n) {
    if (n % 10 == 1 && n % 100 != 11) return "st";
    if (n % 10 == 2 && n % 100 != 12) return "nd";
    if (n % 10 == 3 && n % 100 != 13) return "rd";
    return "th";
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Fibonacci.exe
- Output Size: 1.83665180206299 MiB
- Compilation Time: 0.31s
```

Line: 1 Col: 20 Sel: 0 Lines: 28 Length: 728 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Fib

```
Enter the value of n: 1
The 1st Fibonacci number is 1

--------------------------------
Process exited after 0.9954 seconds with return val
ue 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Celsius to Fahrenheit.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp Celsius to Fahren

```
1  #include <iostream>
2  #include <vector>s
3  std::vector<double> convertToFahrenheit(const std::vector<doub
4      std::vector<double> fahrenheit(celsius.size());
5      for (std::size_t i = 0; i < celsius.size(); ++i) {
6          fahrenheit[i] = (celsius[i] * 9.0 / 5.0) + 32.0;
7      }
8      return fahrenheit;
9  }
10 int main() {
11     int n;
12     std::cout << "Enter the number of temperatures: ";
13     std::cin >> n;
14     std::vector<double> celsius(n);
15     std::cout << "Enter the temperatures in Celsius:" << std::
16     for (int i = 0; i < n; ++i) {
17         std::cin >> celsius[i];
18     }
19     std::vector<double> fahrenheit = convertToFahrenheit(celsi
```

Compiler (1) Resources Compile Log Debug Find Results Close

Line	Col	File	Message
2	18	C:\Users\chgan\OneDrive\Celsius to Fahrenheit.cpp	[Warning] extra tokens at end of #include directive

Line: 2 Col: 19 Sel: 0 Lines: 26 Length: 886 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Cel

```
Enter the number of temperatures: 2
Enter the temperatures in Celsius:
10
45
Temperatures in Fahrenheit:
50 113

--------------------------------
Process exited after 6.385 seconds with return valu
e 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Vote.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp

```cpp
#include <iostream>
int main() {
    int age;
    std::cout << "Enter your age: ";
    std::cin >> age;
    if (age >= 18) {
        std::cout << "You are eligible to vote." << std::endl;
    } else {
        int years_left = 18 - age;
        std::cout << "You are not eligible to vote. You will b
    }
    return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Vote.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.31s
```

Line: 1 Col: 20 Sel: 0 Lines: 13 Length: 395 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Vot

```
Enter your age: 17
You are not eligible to vote. You will be eligible
in 1 year(s).

--------------------------------
Process exited after 3.009 seconds with return valu
e 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Vote.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp Vote.cpp

```cpp
#include <iostream>
int main() {
    int age;
    std::cout << "Enter your age: ";
    std::cin >> age;
    if (age >= 18) {
        std::cout << "You are eligible to vote." << std::endl;
    } else {
        int years_left = 18 - age;
        std::cout << "You are not eligible to vote. You will b
    }
    return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Vote.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.31s
```

Line: 1 Col: 20 Sel: 0 Lines: 13 Length: 395 Insert Done parsing in 0 seconds

C:\Users\chgan\OneDrive\Vot

```
Enter your age: 17
You are not eligible to vote. You will be eligible
in 1 year(s).

--------------------------------
Process exited after 3.009 seconds with return valu
e 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Descending.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp Descending.cpp

```cpp
#include <iostream>
#include <algorithm>
#include <vector>
using namespace std;
int main() {
    int arr[] = {-45, 78, 23, 89, -90};
    int n = sizeof(arr) / sizeof(arr[0]);
    vector<int> vec(arr, arr + n);
    sort(vec.begin(), vec.end());
cout << "Sorted array in non-decreasing order:" << endl;
    for (int i = 0; i < n; ++i) {
        cout << vec[i] << " ";
    }
    cout << endl;
   return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Descending.exe
- Output Size: 1.87637138366699 MiB
- Compilation Time: 0.38s
```

Line: 16 Col: 2 Sel: 0 Lines: 16 Length: 427 Insert Done parsing in 0.015 seconds

C:\Users\chgan\OneDrive\De

```
Sorted array in non-decreasing order:
-90 -45 23 78 89

--------------------------------
Process exited after 0.08889 seconds with return va
lue 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Smallest.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp Smallest.cpp

```cpp
#include <iostream>
using namespace std;
int findSmallestMissing(int arr[], int n) {
    int expected = 1;
    int i = 0;
    while (i < n) {
        if (arr[i] == expected) {
            ++expected;
            ++i;
        } else if (arr[i] > expected) {

            return expected;
        } else {
            ++i;
        }
    }
    return expected;
}
```

Compiler Resources Compile Log Debug Find Results Close

Debug Add watch Next line Continue Next instruction

Stop Execution View CPU window Into function Skip function Into instruction

Evaluate:

Send command to GDB:

C:/Program Files (x86)/Dev-Cpp/MinGW64/lib/gcc/x86_64-w64-mingw32/4.9.2/include;C:/Program Files (x86)/Dev-

Line: 4 Col: 24 Sel: 0 Lines: 25 Length: 626 Insert Done parsing in 0.016 seconds

C:\Users\chgan\OneDrive\Sm

```
Smallest missing element: 2

--------------------------------
Process exited after 0.07758 seconds with return va
lue 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Address.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

Area.cpp Series.cpp Degree.cpp Address.cpp

```cpp
#include <iostream>
using namespace std;

int main() {
    const int SIZE = 5;
    int arr[SIZE] = {10, 20, 30, 40, 50};

    cout << "Element addresses in the array:" << endl
    for (int i = 0; i < SIZE; ++i) {
        cout << "Address of arr[" << i << "] = " << &
    }
    return 0;
}
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Address.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.33s
```

Line: 14 Col: 1 Sel: 0 Lines: 14 Length: 320 Overwrite Done parsi

C:\Users\chgan\OneDrive\Ad

```
Element addresses in the array:
Address of arr[0] = 0x6ffdf0
Address of arr[1] = 0x6ffdf4
Address of arr[2] = 0x6ffdf8
Address of arr[3] = 0x6ffdfc
Address of arr[4] = 0x6ffe00

--------------------------------
Process exited after 0.08098 seconds with return value 0
Press any key to continue . . .
```

C:\Users\chgan\OneDrive\Series.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

Area.cpp Series.cpp

```cpp
#include <iostream>
using namespace std;
int main() {
    int n;
    double sum = 0.0;
    cout << "Enter the number of terms in the series:
    cin >> n;
    for (int i = 1; i <= n; ++i) {
        sum += 1.0 / i;
    }
    cout << "Sum of the series: " << sum << endl;
    return 0;
}

```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\chgan\OneDrive\Series.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.33s
```

Line: 14 Col: 1 Sel: 0 Lines: 14 Length: 305 Insert Done parsi

C:\Users\chgan\OneDrive\Ser

```
Enter the number of terms in the series: 5
Sum of the series: 2.28333

--------------------------------
Process exited after 2.698 seconds with return value 0
Press any key to continue . . .
```