

C:\Users\91970\OneDrive\Documents\modelq7.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

modelq7.cpp

```
1 #include <iostream>
2 class RightAngleTriangle {
3 private:
4     int rows;
5
6 public:
7     RightAngleTriangle() {
8         rows = 5;
9     }
10    RightAngleTriangle(int numRows) {
11        rows = numRows;
12    }
13    void printPattern() {
14        for (int i = 1; i <= rows; ++i) {
15            for (int j = 1; j <= i; ++j) {
16                std::cout << i << " ";
17            }
18            std::cout << std::endl;
19        }
20    }
21 };
22
```

C:\Users\91970\OneDrive\Documents\modelq7.exe

```
Enter the number of rows: 6
Pattern with default constructor:
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

Pattern with parameterized constructor:
1
2 2
3 3 3
4 4 4 4
5 5 5 5
6 6 6 6 6 6

-----
Process exited after 6.104 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\91970\OneDrive\Documents\modelq7.exe
- Output Size: 1.83388137817383 MiB
- Compilation Time: 0.50s
```

Line: 7 Col: 17 Sel: 0 Lines: 36 Length: 850 Insert Done parsing in 0.391 seconds

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C:\Users\91970\OneDrive\Documents\modelq5.cpp - [Executing] - Dev-C++ 5.11

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(globals)

Project Classes Debug modelq7.cpp modelq1.cpp modelq2.cpp modelq3.cpp modelq4.cpp modelq5.cpp

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     const int sides = 2;
5     int dimensions[sides];
6     cout << "Enter the length of the rectangle: ";
7     cin >> dimensions[0];
8     cout << "Enter the width of the rectangle: ";
9     cin >> dimensions[1];
10    int area = dimensions[0] * dimensions[1];
11    cout << "Area of the rectangle is: " << area <<
12
13    return 0;
14 }
15
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\91970\OneDrive\Documents\modelq5.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.58s

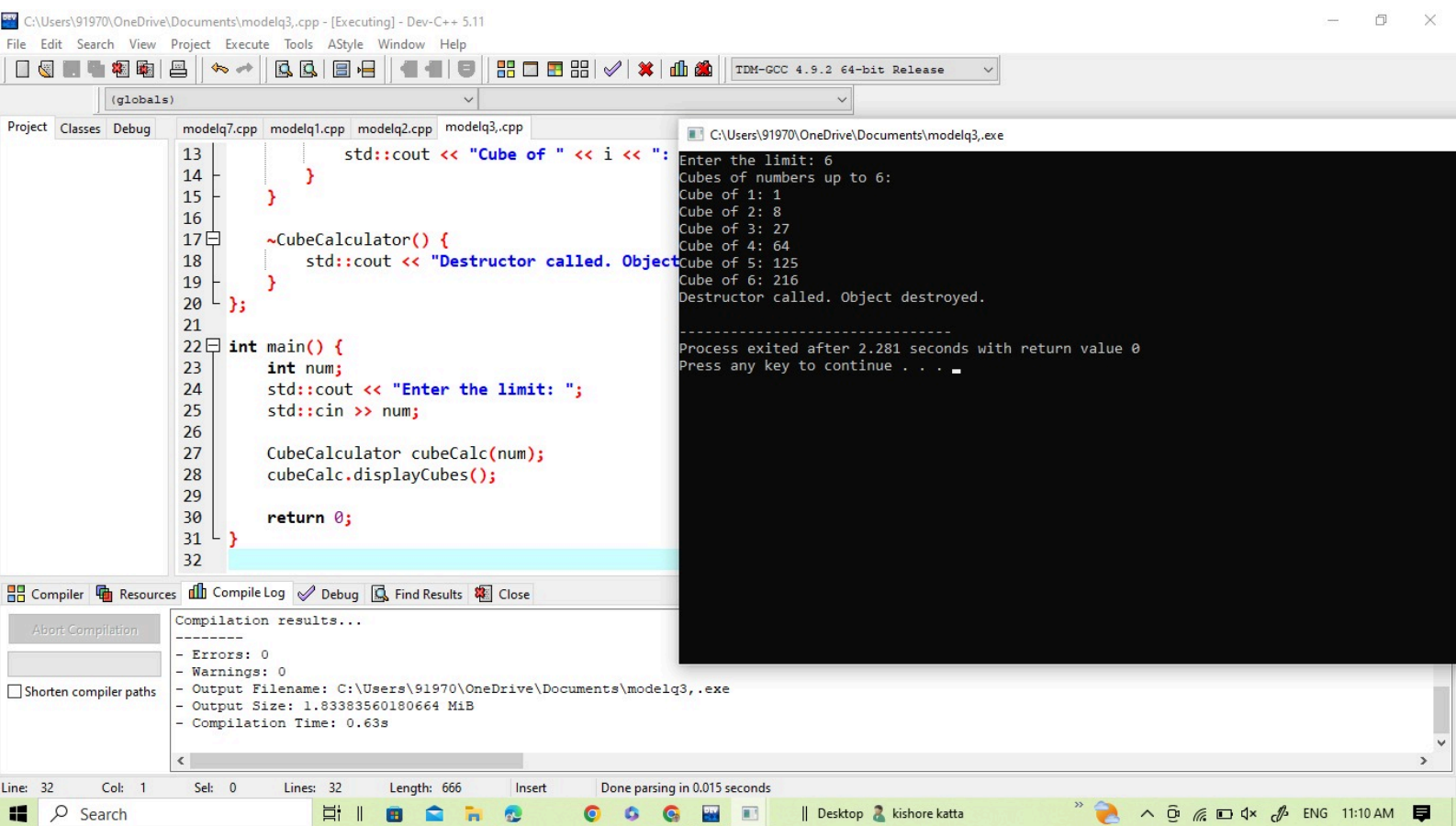
Line: 2 Col: 21 Sel: 0 Lines: 15 Length: 396 Insert Done parsing in 0.016 seconds

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C:\Users\91970\OneDrive\Documents\modelq5.exe

Enter the length of the rectangle: 12  
Enter the width of the rectangle: 45  
Area of the rectangle is: 540

-----  
Process exited after 6.317 seconds with return value 0  
Press any key to continue . . .



C:\Users\91970\OneDrive\Documents\modelq4.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug modelq7.cpp modelq1.cpp modelq2.cpp modelq3.cpp modelq4.cpp

```
1 #include <iostream>
2
3 int main() {
4     int n;
5     int sum = 0;
6
7     std::cout << "Enter a positive integer n: ";
8     std::cin >> n;
9
10    for (int i = 1; i <= n; ++i) {
11        sum += i;
12    }
13
14    std::cout << "Sum of the first " << n << " natural numbers is: ";
15
16    return 0;
17 }
18
```

C:\Users\91970\OneDrive\Documents\modelq4.exe

```
Enter a positive integer n: 6
Sum of the first 6 natural numbers is: 21

-----
Process exited after 2.711 seconds with return value 0
Press any key to continue . . .
```

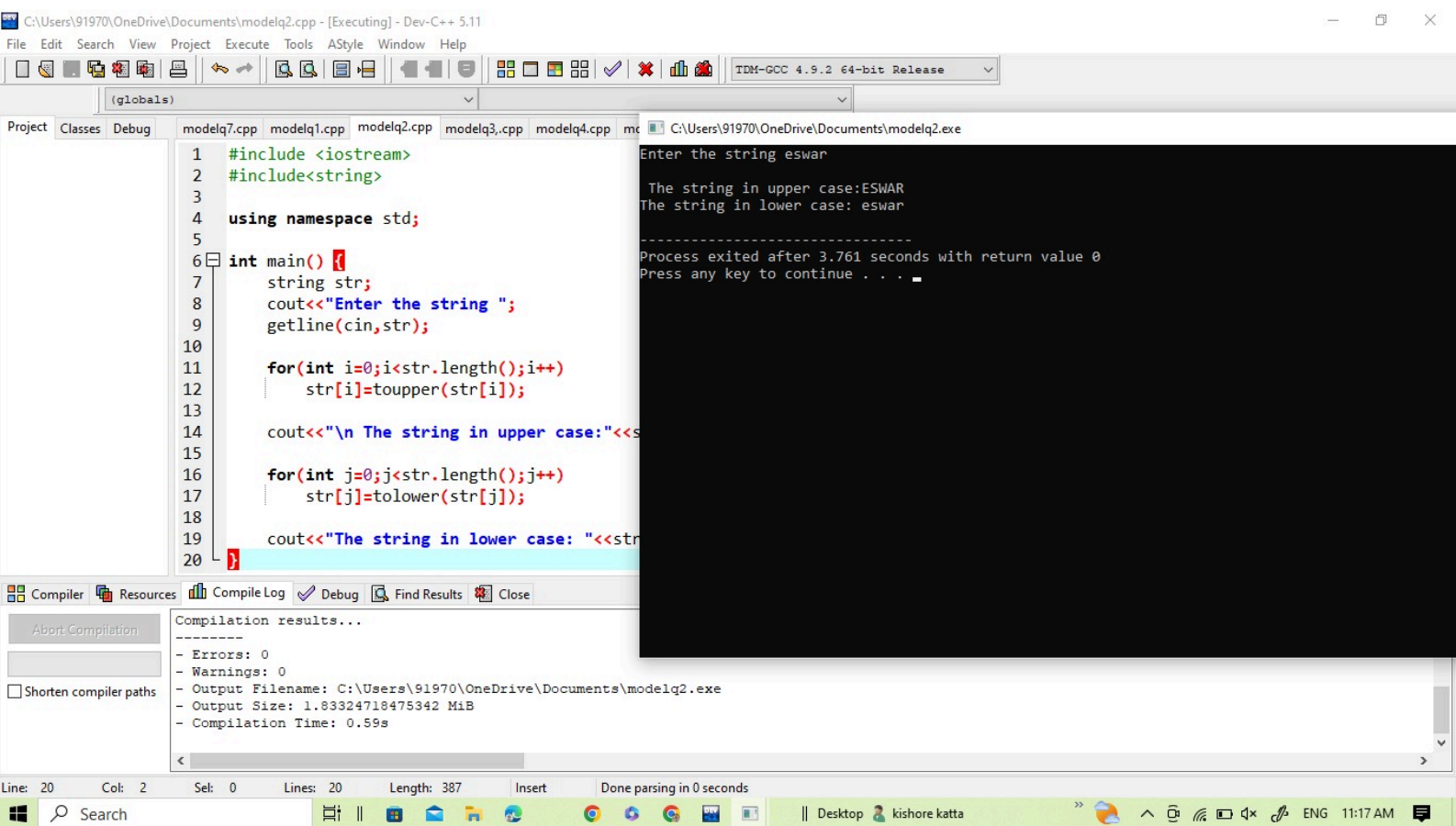
Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\91970\OneDrive\Documents\modelq4.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.52s

Line: 13 Col: 1 Sel: 0 Lines: 18 Length: 318 Insert Done parsing in 0.016 seconds

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C:\Users\91970\OneDrive\Documents\modelq6.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

```
(globals)
Project Classes Debug modelq7.cpp modelq1.cpp modelq2.cpp modelq3.cpp modelq4.cpp modelq5.cpp modelq6.cpp
34         std::cout << "Result of division: " <<
35     } else {
36         std::cout << "Error! Division by zero is
37     }
38     break;
39     case '%':
40     if(num2 != 0) {
41         result = static_cast<int>(num1) % static
42         std::cout << "Result of modulus: " << re
43     } else {
44         std::cout << "Error! Modulus by zero is
45     }
46     break;
47     default:
48         std::cout << "Invalid operation!";
49 }
50
51 return 0;
52 }
53
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\91970\OneDrive\Documents\modelq6.exe
- Output Size: 1.83291149139404 MiB
- Compilation Time: 0.67s
```

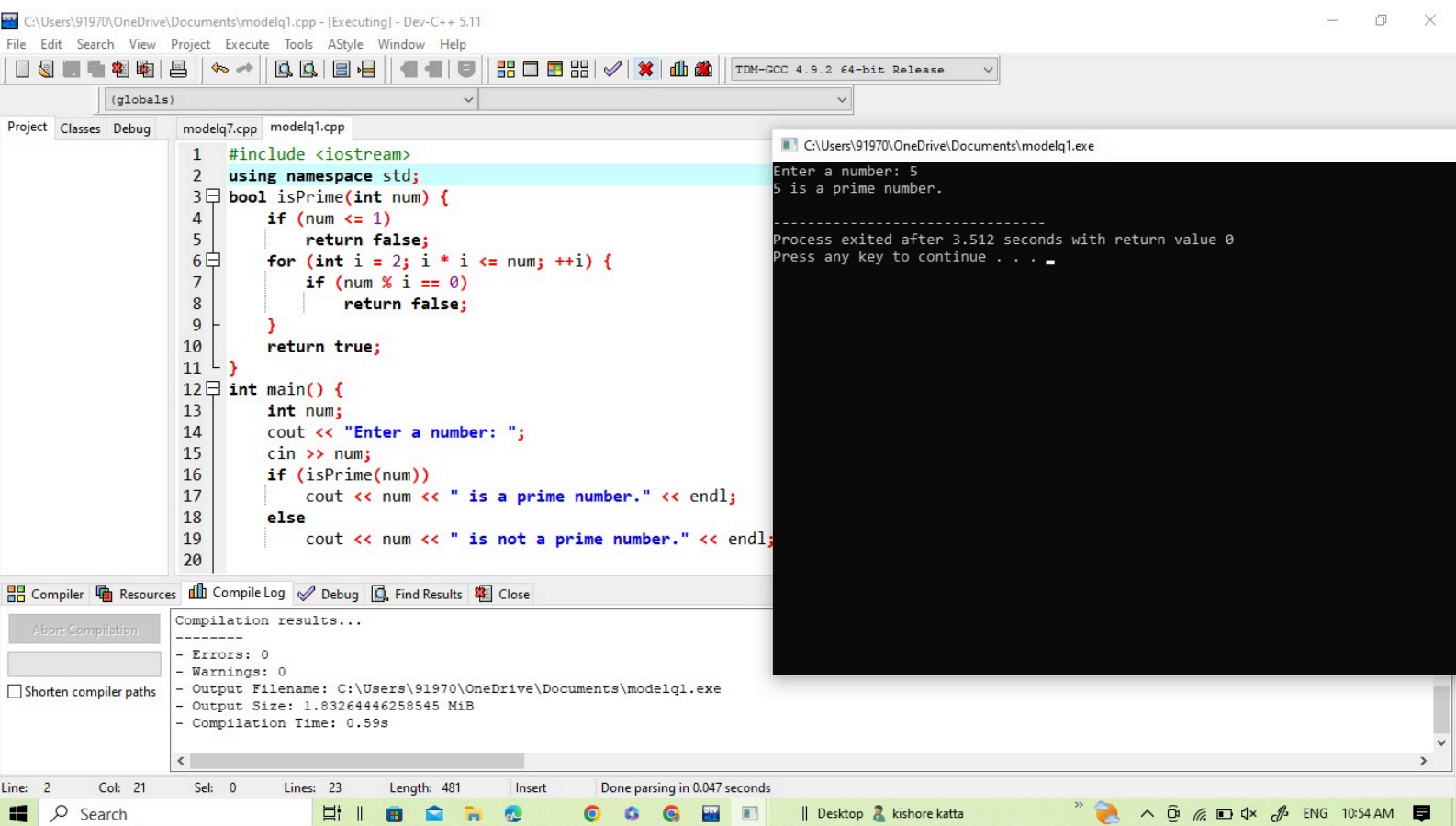
Line: 53 Col: 1 Sel: 0 Lines: 53 Length: 1594 Insert Done parsing in 0 seconds

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C:\Users\91970\OneDrive\Documents\modelq6.exe

```
Enter an arithmetic operation (+, -, *, /, %): +
Enter first number: 45
Enter second number: 76
Result of addition: 121
-----
Process exited after 12.45 seconds with return value 0
Press any key to continue . . .
```





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main.cpp

Run

Output

Clear

```
1 #include <iostream>
2 #include <vector>
3 #include <climits>
4
5 std::vector<int> mergeArrays(const std::vector<std::vector<int>>&
    arrays) {
6     std::vector<int> result;
7
8     // Initialize an array of indices to keep track of the current
        position in each array
9     std::vector<int> indices(arrays.size(), 0);
10
11     // Repeat until all arrays are merged
12     while (true) {
13         // Find the smallest element among the current elements
            pointed by the indices
14         int smallest = INT_MAX;
15         int smallestIndex = -1;
16         for (int i = 0; i < arrays.size(); ++i) {
17             if (indices[i] < arrays[i].size() &&
                arrays[i][indices[i]] < smallest) {
18                 smallest = arrays[i][indices[i]];
```

```
//tmp/RQONP9oVFao
Enter the number of sorted arrays: 2
Enter the size of array 1: 3
Enter the elements of array 1 (in ascending order): 1
3
5
Enter the size of array 2: 5
Enter the elements of array 2 (in ascending order): 2
3
45
5
6
Merged array: 1 2 3 3 4 5 5 6
```

JS

GO

php

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