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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in C++ (course)

Announcements (announcements) About the Course (preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

- Module 16:

 Static Members
 (Lecture 31)
 (unit?

 unit=56&lesson=57)
- Module 17:

 Friend Function
 and Friend Class
 (Lecture 32)
 (unit?
 unit=56&lesson=58)
- Module 18 :
 Overloading
 Operator for User
 Defined Types:

W4_Programming-Qs2

Due on 2020-10-15, 23:59 IST

Consider the following program and fill in the blanks in LINE-1 for overloading of multiplication operator, in LINE-2 and LINE-3 to calculate multiplication of two complex numbers. Consider sample input and output.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	1 2 1	-3 4	-3 4	Passe d

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-10-15, 19:08 IST

Your last recorded submission was :

```
1 #include <iostream>
 2 using namespace std;
 4
   class Complex {
        int re, im;
   public:
 6
   Complex(int r = 0, int i = 0) : re(r), im(i) { }
Complex operator *(const Complex &c) { // LINE-1
 8
 9
10
             int x, y;
11
             x = re*(c.re) - im*(c.im);
                                                            // LINE-2
12
13
14
             y = im*(c.re) + (c.im)*re;
                                                            // LINE-3
15
16
             Complex t1(x, y);
17
             return t1;
18
19
20
        }
```

```
10/28/2020
   Part - I (Lecture
                                 21
22
23
24
25
26
27
28
29
31
32
33
34
35
36
   33) (unit?
                                           void show() {
    cout << re << " " << im;</pre>
   unit=56&lesson=59)
Module 19 :
                                     };
   Overloading
                                     int main() {
    int x1, x2, y1, y2;
    cin >> x1 >> y1 >> x2 >> y2;
   Operator for User
   Defined Types:
   Part - II (Lecture
                                           Complex c1(x1, y1), c2(x2, y2);
Complex c3 = c1 * c2;
   34) (unit?
   unit=56&lesson=60)
                                           c3.show();
 Module 20 :
                                 37
38 }
                                           return 0;
   Namespace
   (Lecture 35)
   (unit?
   unit=56&lesson=61)

    Lecture Materials

   (unit?
   unit=56&lesson=62)
 Quiz :
   Assignment 4
   (assessment?
   name=136)
 W4_Programming-
   (/noc20 cs57/progassignment?
   name=142)
W4_Programming-
   Qs2
   (/noc20_cs57/progassignment?
   name=143)
W4_Programming-
   (/noc20_cs57/progassignment?
   name=144)
```

 Feedback For Week 4 (unit?

W4_Programming-

unit=56&lesson=63)

name=145)

(/noc20_cs57/progassignment?

Week 5

Week 6

Week 7

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Text Transcripts

Assignment Solution

Books

Live Interactive Session