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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)

W2_Programming-Qs1

Due on 2020-10-01, 23:59 IST

The following program is used to multiply two complex numbers. Fill in the blanks (in LINE-1, LINE-2 and LINE-3) so that it will satisfy sample input and output.

Private Test cases used for evaluation
Input
Expected Output
Actual Output
Status

Test Case 1

 1 5 2 1
0

-48 20

-48 20

Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2020-10-01, 23:30 IST

Your last recorded submission was :

```

1 #include <iostream>
2
3 using namespace std;
4
5 struct Complex {
6     int x, y;
7 };
8
9 Complex operator*(Complex &p1, Complex &p2) { // LINE-1
10     struct Complex p3 = { 0, 0 };
11     p3.x = (p1.x)*(p2.x)-(p1.y)*(p2.y); // LINE-2
12     p3.y = (p1.x)*(p2.y) +(p1.y)*(p2.x); // LINE-3
13     return p3;
14 }
15 int main() {

```

Course outline

How does an NPTEL online course work?
Week 0
Week 1
Week 2

- Module 6 :
Constants and
Inline Functions
(Lecture 08)
(unit?
unit=27&lesson=28)

- Module 6 :
Constants and
Inline Functions
(Contd.) (Lecture
09) (unit?
unit=27&lesson=29)

- Module 7 :
Reference and
Pointer (Lecture
10) (unit?
unit=27&lesson=30)

- Module 7 :
Reference and

Pointer (Contd.)
(Lecture 11)
(unit?
unit=27&lesson=31)

● Module 8 :
Default
Parameters and
Function
Overloading
(Lecture 12)
(unit?
unit=27&lesson=32)

● Module 8 :
Default
Parameters and
Function
Overloading
(Contd.) (Lecture
13) (unit?
unit=27&lesson=33)

● Module 8 :
Default
Parameters and
Function
Overloading
(Contd.) (Lecture
14) (unit?
unit=27&lesson=34)

● Module 9 :
Operator
Overloading
(Lecture 15)
(unit?
unit=27&lesson=35)

● Module 9 :
Operator
Overloading
(Contd.) (Lecture
16) (unit?
unit=27&lesson=36)

● Module 10 :
Dynamic Memory
Management
(Lecture 17)
(unit?
unit=27&lesson=37)

● Module 10 :
Dynamic Memory
Management
(Contd.) (Lecture
18) (unit?
unit=27&lesson=38)

```

21
22     struct Complex p1, p2;
23
24     cin >> p1.x >> p1.y >> p2.x >> p2.y;
25
26     struct Complex p3 = p1*p2;
27
28     cout << p3.x << " " << p3.y;
29
30     return 0;
31 }
```

☐ Lecture Materials
(unit?
unit=27&lesson=39)

☒ Quiz :
Assignment 2
(assessment?
name=125)

☒ **W2_Programming-
Qs1**
(/noc20_cs57/progassignment?
name=129)

☒ W2_Programming-
Qs2
(/noc20_cs57/progassignment?
name=130)

☒ W2_Programming-
Qs3
(/noc20_cs57/progassignment?
name=131)

☒ W2_Programming-
Qs4
(/noc20_cs57/progassignment?
name=132)

☐ Feedback For
Week 2 (unit?
unit=27&lesson=40)

Week 3

Week 4

Week 5

Week 6

Week 7

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