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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-Qs1

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

Consider the following program. Fill in the blanks in LINE-1 for forward declaration and in LINE-2 to make available private variable of class B to the member functions of class A such that it will satisfy sample input and output.

Private Test cases used for evaluationInputExpected OutputActual OutputStatus

Test Case 1 7 12 2 12 2 Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-10-15, 19:06 IST

Your last recorded submission was :

```
1 #include <iostream>
   using namespace std;
 3
                            // LINE-1
   class B;
9
10
11 class A {
12
13
14
        int a_ = 0;
15
16
17
   public:
        A(int x) : a_(x) \{ \}
19
        int addB(B&);
20
        int subtractB(B&);
21
22
23 };
```

```
Part - I (Lecture
                               24
25
26
27
28
29
30
  33) (unit?
  unit=56&lesson=59)
                                   class B {
                                        int b = 5;
Module 19 :
  Overloading
                               31
32
33
                                   public:
  Operator for User
                                                                       // LINE-2
  Defined Types:
                                        friend class A;
                               34
35
  Part - II (Lecture
                                  };
int A::addB(B &b) {
    return (a_ + b.b_);
  34) (unit?
                               36
37
38
39
  unit=56&lesson=60)
Module 20 :
                               40
41
                                  int A::subtractB(B &b) {
    return (a_ - b.b_);
  Namespace
  (Lecture 35)
                               42
                               43
  (unit?
                                   int main() {
                               44
  unit=56&lesson=61)
                                        int x;
cin >> x;
                               45
                               46

    Lecture Materials

                               47
                               48
                                        A t1(x);
  (unit?
                               49
                                        B t2;
  unit=56&lesson=62)
                               50
                               51
52
                                        cout << t1.addB(t2) << " " << t1.subtractB(t2);</pre>
Quiz :
  Assignment 4
                               53
                                        return 0;
                               54 }
  (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)
- W4_Programming-(/noc20_cs57/progassignment? name=145)
- Feedback For Week 4 (unit? unit=56&lesson=63)

Week 5

Week 6

Week 7

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Assignment Solution

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