X

(https://swayam.gov.in) (https://swayam.gov.in/nc_details/NPTEL)

vp2749@srmist.edu.in

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

Week 5

Week 6

- Module 26 : Dynamic Binding : Part I (Lecture 41) (unit?unit=72&lesson=73)
- Module 27 : Dynamic Binding (Polymorphism) : Part II (Lecture 42) (unit?unit=72&lesson=74)

W6_Programming-Qs4

Due on 2020-10-29, 23:59 IST

Fill in the blanks at LINE-1 with proper access modifier, at LINE-2 so that global function
addition can access private data member of Base class and at LINE-3 to call Base class `show()`
function such that it matches the given test cases. *Do not change any other part of the code.*

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	5 1 0	15 10	15 10	Passed

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

Assignment submitted on 2020-10-29, 23:14 IST
Your last recorded submission was :

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

class Base {
    int b;
public:
    Base(int n) : b(n) { }
    virtual void show() {        // LINE-1
        cout << b << " ";
    }
   friend void addition(Base &,Base &);        // LINE-2
};

class Derived : public Base {
    int d;
```

```
16 public:
17     Derived(int m, int n) : Base(m), d(n) { }
18     void show() {
19        Base::show();            // LINE-3
20         cout << d << " ";
21     }
22 };
23
24 void addition(Base &x, Base &y) {
25     x.b = x.b + y.b;
26 }
27
28 int main() {
29     int m, n;
30     cin >> m >> n;
31
32     Base *t1 = new Derived(m, n);
33     Base *t2 = new Base(n);
34
35     addition(*t1, *t2);
36     t1->show();
37
38     return 0;
39 }
```

DOWNLOAD VIDEOS

Text Transcripts

Assignment Solution

Books

Live Interactive Session

Programming Test (11th Dec): Session-1 (10.00AM - 11.00AM)

Programming Test (11th Dec): Session-2 (8.00PM - 9.00PM)