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



Register for Certification  
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## W7\_Programming\_Qs-1

**Due on 2023-03-16, 23:59 IST**

Complete the program with the following instructions.

- Fill in the blank at LINE-1 to complete operator overloading for assignment operator.
- Fill in the blanks at LINE-2 and LINE-3 to complete the type casting statements.

The program must satisfy the given test cases.

**Private Test cases used for evaluation**

Test Case 1

Input	Expected Output	Actual Output	Status
15	10 25	10 25	Passed

The due date for submitting this assignment has passed.

### Course outline

How does an NPTEL  
online course work? ()

Week 0 ()

Week 1 ()

**Week 2 ()****Week 3 ()****Week 4 ()****Week 5 ()****Week 6 ()****Week 7 ()**

- ☐ Lecture 31 : Virtual Function Table (unit? unit=82&lesson=83)
- ☐ Lecture 32 : Type Casting & Cast Operators: Part 1 (unit?unit=82&lesson=84)
- ☐ Lecture 33 : Type Casting & Cast Operators: Part 2 (unit?unit=82&lesson=85)
- ☐ Lecture 34 : Type Casting & Cast Operators: Part 3 (unit?unit=82&lesson=86)
- ☐ Lecture 35 : Multiple Inheritance (unit? unit=82&lesson=87)
- ☐ Tutorial 07 : How to design a UDT like built-in types?: Part 1: Fraction UDT (unit? unit=82&lesson=88)

1 out of 1 tests passed.

You scored 100.0/100.

**Assignment submitted on 2023-03-13, 18:15 IST**

Your last recorded submission was :

```

1 #include<iostream>
2 using namespace std;
3 class Test1{
4     int a = 10;
5     public:
6         void show(){
7             cout << a << " ";
8         }
9 };
10 class Test2{
11     int b = 20;
12     public:
13         void show(){
14             cout << b;
15         }
16     Test2 operator=(int x){ //LINE-1
17         b = b + x;
18     }
19 };
20 void fun(const Test1 &t, int x){
21     Test1 &u = const_cast<Test1&>(t); //LINE-2
22     u.show();
23     Test2 &v = reinterpret_cast<Test2&>(u); //LINE-3
24     v = x;
25     v.show();
26 }
27 int main(){
28     Test1 t1;
29     int x;
30     cin >> x;
31     fun(t1, x);
32     return 0;
33 }
```

- ☒ Week 7 Lecture Material  
(unit?unit=82&lesson=89)
- ☒ Quiz: Week 7 :  
Assignment 7  
(assessment?name=191)
- ☒ **W7\_Programming\_Qs-1**  
(/noc23\_cs50/progassignment?  
name=194)
- ☒ W7\_Programming\_Qs-2  
(/noc23\_cs50/progassignment?  
name=193)
- ☒ W7\_Programming\_Qs-3  
(/noc23\_cs50/progassignment?  
name=195)
- ☐ Week 7 Feedback Form  
(unit?unit=82&lesson=90)
- ☐ Assignment 7 Solution  
(unit?unit=82&lesson=91)

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**Week 8 ()**

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**Download Videos ()**

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**Books ()**

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**Transcripts ()**

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**Problem Solving  
Session ()**

