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



Register for Certification exam

(https://examform.nptel.ac.in/2023-01/exam\_form/dashboard)

# W5\_Programming\_Qs-3

Due on 2023-03-02, 23:59 IST

Consider the following program. Fill in the blanks as per the instructions given below:

- Fill in the blank at LINE-1 to complete the inheritance statement.
- Fill in the blank at LINE-2 with the appropriate initializer list,

The program must satisfy the given test cases.

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

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

Assignment submitted on 2023-02-25, 12:15 IST

Your last recorded submission was :

```
1 #include<iostream>
2 using namespace std;
3 class Test1{
4     protected:
5         int t1;
6     public:
7         Test1(int b) : t1(b){}
8 };
9 class Test2{
10     protected:
11         int t2;
12     public:
13         Test2(int b) : t2(b){}
14 };
15 class ReTest : public Test1 ,public Test2{ //LINE-1
16     int t;
17     public:
18         ReTest(int x) : Test1(x+5),Test2(x+10),t(x){} //LINE-2
19         void show(){
20             cout << t << " , " << t1 << " , " << t2;
21         }
22 };
23
```

Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Lecture 21 : Inheritance: Part 1 (Inheritance Semantics) (unit? unit=62&lesson=63)

- Lecture 22 :  
Inheritance:  
Part 2 (Data  
Member &  
Member  
Function -  
Override &  
Overload)  
(unit?  
unit=62&lesson=64)

```

24 int main(){
25     int x;
26     cin >> x;
27     ReTest t1(x);
28     t1.show();
29     return 0;
30 }

```

- Lecture 23 :  
Inheritance:  
Part 3  
(Constructor &  
Destructor -  
Object  
Lifetime) (unit?  
unit=62&lesson=65)

- Lecture 24 :  
Inheritance:  
Part 4: Phone  
Hierarchy  
(unit?  
unit=62&lesson=66)

- Lecture 25 :  
Inheritance:  
Part 5: private  
& protected  
Inheritance  
(unit?  
unit=62&lesson=67)

- Tutorial 05 :  
Mixing C and  
C++ Code:  
Part 1: Issues  
and  
Resolutions  
(unit?  
unit=62&lesson=68)

- Week 5  
Lecture  
Material (unit?  
unit=62&lesson=69)

- Quiz: Week 5 :  
Assignment 5  
(assessment?  
name=185)

- W5\_Programming\_Qs-  
1  
(/noc23\_cs50/progassignment?  
name=182)

☒ W5\_Programming\_Qs-  
2  
(/noc23\_cs50/progassignment?  
name=183)

☒ W5\_Programming\_Qs-  
3  
(/noc23\_cs50/progassignment?  
name=184)

☐ Week 5  
Feedback  
Form (unit?  
unit=62&lesson=70)

☐ Assignment 5  
Solution (unit?  
unit=62&lesson=71)

**Week 6 ()**

**Week 7 ()**

**Week 8 ()**

**Download  
Videos ()**

**Books ()**

**Transcripts ()**

**Problem  
Solving  
Session ()**