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



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W6_Programming_Qs-2

Due on 2023-03-09, 23:59 IST

Consider the following program with the following instructions.

- Fill in the blank at LINE-1 with appropriate destructor declaration.
- Fill in the blank at LINE-2 with appropriate initialization list of derived class constructor.

The program must satisfy the sample input and output.

Course outline

How does an NPTEL
online course work? ()

Week 0 ()

Week 1 ()

Private Test cases used for evaluation

Test Case 1

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Input	Expected Output	Actual Output	Status
50	50 150 4 2	50 150 4 2	Passed

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

- ☐ Lecture 26 :
Polymorphism: Part 1:
Type Casting (unit?
unit=72&lesson=73)
- ☐ Lecture 27 :
Polymorphism: Part 2:
Static and Dynamic
Binding (unit?
unit=72&lesson=74)
- ☐ Lecture 28 :
Polymorphism: Part 3:
Abstract Base Class
(unit?unit=72&lesson=75)
- ☐ Lecture 29 :
Polymorphism: Part 4:
Staff Salary Processing
using C (unit?
unit=72&lesson=76)
- ☐ Lecture 30 :
Polymorphism: Part 5:
Staff Salary Processing
using C++ (unit?
unit=72&lesson=77)

Assignment submitted on 2023-02-28, 20:39 IST

Your last recorded submission was :

```

1 #include<iostream>
2 using namespace std;
3 class Base{
4     public:
5         Base(){ cout << "1 "; }
6         Base(int n){ cout << n << " "; }
7
8         virtual ~Base(){ cout << "2 "; };           //LINE-1
9 };
10 class Derived : public Base{
11     int num;
12     public:
13         Derived(){ cout << "3 "; }
14         Derived(int n) : Base(n), num(n*3){ cout << num << " "; } //LINE-2
15         virtual ~Derived(){ cout << "4 "; }
16 };
17
18 int main(){
19     int i;
20     cin >> i;
21     Base *pt = new Derived(i);
22     delete pt;
23     return 0;
24 }

```

- ☐ Tutorial 06 : Mixing C and C++ Code: Part 2: Project Example (unit?unit=72&lesson=78)
- ☒ Week 6 Lecture Material (unit?unit=72&lesson=79)
- ☒ Quiz: Week 6 : Assignment 6 (assessment?name=189)
- ☒ W6_Programming_Qs-1 (/noc23_cs50/progassignment?name=186)
- ☒ **W6_Programming_Qs-2 (/noc23_cs50/progassignment?name=187)**
- ☒ W6_Programming_Qs-3 (/noc23_cs50/progassignment?name=188)
- ☐ Week 6 Feedback Form (unit?unit=72&lesson=190)
- ☒ Assignment 6 Solution (unit?unit=72&lesson=81)

Week 7 ()

Week 8 ()

Download Videos ()

Books ()

Transcripts ()

**Problem Solving
Session ()**