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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

Week 5

Week 6

### Week 7

- Module 31 : Virtual FunctionTable (Lecture46) (unit?unit=80&lesson=81)
- Module 32 : Type Casting and Cast Operators : Part I (Lecture 47)

# W7\_Programming-Qs3

Due on 2020-11-05, 23:59 IST

Consider the following program. Fill in the blank at LINE-1, LINE-2, and LINE-3 with appropriate inheritance type such that it satisfies the given test cases.

## Private Test cases used for evaluation

evaluation

Test Case 1

### Input Expected OutputActual Output Status

1 0 16 32 16 0 16 32 16 d

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

#### Assignment submitted on 2020-11-05, 23:28 IST

Your last recorded submission was :

```
#include <iostream>
  using namespace std;
   class A {
 4
 5
   public:
       A(int i = 0) { cout << i << " "; }
void print(int i){ cout << i << " "; }
 8
   class B : virtual public A{ // LINE-1 : Inherit from class A
10
   public:
       B(int i = 0) : A(++i) { print(i); }
12
13
14 class C : virtual public A { // LINE-2 : Inherit from class A
   public:
       C(int i = 0) : A(++i) { print(i); }
18
   class D : public C,public B{ // LINE-3 : Inherit from class B and C
19
   public:
       D(int i = 0) : B(i * 2), C(++i) { print(i); }
21
22 };
```

```
(unit?
unit=80&lesson=82)

    Module 33 : Type
    Casting and Cast
    Operators : Part
II (Lecture 48)
    (unit?
23    int main() {
    int i;
    cin >> i;
    D obj(i);
    return 0;
}

return 0;
```

Module 34 : Type
Casting and Cast
Operators : Part
III (Lecture 49)
(unit?
unit=80&lesson=84)

unit=80&lesson=83)

- Module 35 :
  Multiple
  Inheritance
  (Lecture 50)
  (unit?
  unit=80&lesson=85)
- Module 35 :
   Multiple
   Inheritance
   (Contd.) (Lecture
   51) (unit?
   unit=80&lesson=86)
- Lecture Materials (unit? unit=80&lesson=87)
- Quiz : Assignment 7 (assessment? name=170)
- W7\_Programming-Qs1 (/noc20\_cs57/progassignment? name=171)
- W7\_Programming-Qs2 (/noc20\_cs57/progassignment? name=172)
- W7\_Programming-Qs3 (/noc20\_cs57/progassignment? name=173)
- W7\_Programming-Qs4 (/noc20\_cs57/progassignment? name=174)

Feedback For Week 7 (unit? unit=80&lesson=88)

Week 8

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)