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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-Qs2

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

Consider the following program. Fill in the blanks at LINE-1 with appropriate abstract function definition for function fun(), and LINE-2, LINE-3 and LINE-4 with appropriate inheritance such that it matches the given test cases.

Private Test cases used for evaluation	Input	Expected Actual Output Status Output		Status
Test Case 1	1 0	100 20 0	100 20 0	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-05, 23:22 IST

Your last recorded submission was :

```
1 #include <iostream>
   using namespace std;
 4
   class A {
   protected:
 5
 6
        int i;
   public:
 7
        A(int a = 0) : i(a) { }
 8
        void set(int a) {
 9
10
            i = à;
cout << i << " ";
11
12
        // create abstract function fun()
13
        virtual void fun()=0; // LINE-1
15 };
16
17 class B : public A { // LINE-2
18 public:
        B(int a = 0) : A(a) { }
void fun() { set(i * 10); }
19
```

```
(unit?
  unit=80&lesson=82)
Module 33 : Type
  Casting and Cast
  Operators: Part
  II (Lecture 48)
  (unit?
  unit=80&lesson=83)
Module 34 : Type
  Casting and Cast
  Operators: Part
  III (Lecture 49)
  (unit?
  unit=80&lesson=84)
O 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)
```

```
21 };
22 class C : public A { // LINE-3
    public:
25
26
27
          C(int a = 0) : A(a) { }
void fun() { set(i + 10); }
    };
28
29
30
    class D :public A { // LINE-4
    public:
          D(int a = 0) : A(a) { }
void fun() { set(i - 10); }
31
32
33
    };
34
35
36
    int main() {
          int num;
37
38
          cin >> num;
          A *pt[3] = { new B(num), new C(num), new D(num) };
for (int i = 0; i < 3; i++) {
   pt[i]->fun();
39
40
41
42
43
44
          return 0;
45 }
```

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)