Χ





vp2749@srmist.edu.in >

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-Qs1

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

Status

Consider the following program. Fill in the blanks at LINE-1 (Casting using constructor) and LINE-2 (User defined cast using operator function) with appropriate expression for casting between two unrelated classes such that it would satisfy the given test cases.

InputExpected Output Actual Output

Private Test cases used for evaluation

1	100:10:220:	100:10:220:1	Passe
0	11:	1:	d

Test Case 1

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, 23:17 IST

Your last recorded submission was :

```
#include <iostream>
using namespace std;

class A {
    int i;
    public:
        A(int ai) : i(ai) {}
    int get() const { return i; }
    void update() { i *= 10; }

class B {
    int i;
    public:
        B(int ai) : i(ai) {}
    int get() const { return i; }

B(int ai) : i(ai) {}
    int get() const { return i; }

B(A& a):i(a.get()){} // LINE-1

operator A() {return A(i);}// LINE-2
    void update() { i *= 20; }
```

```
(unit?
                                  20 };
                                  21
22
  unit=80&lesson=82)
                                      int main() {
                                  23
                                            int i;
cin >> i;
Module 33 : Type
                                  24
25
26
27
28
29
  Casting and Cast
                                            A a(i++);
B b(i);
  Operators: Part
  II (Lecture 48)
  (unit?
                                            const B &r = static_cast<B>(a);
                                  30
31
                                            a.update();
  unit=80&lesson=83)
                                            cout << a.get() << ":";
cout << r.get() << ":";
                                  32
Module 34 : Type
                                  33
                                  34
35
36
37
  Casting and Cast
                                             const A &s = static_cast<A>(b);
                                            b.update();
cout << b.get() << ":";
cout << s.get() << ":";
  Operators: Part
  III (Lecture 49)
                                  38
39
40 }
  (unit?
                                            return 0;
  unit=80&lesson=84)
```

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)