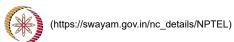X

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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)

W6_Programming-Qs3

Due on 2020-10-29, 23:59 IST

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

○ Module 26 : Dynamic Binding : Part I (Lecture 41) (unit? unit=72&lesson=73)

○ Module 27 : Dynamic Binding (Polymorphism) : Part II (Lecture 42) (unit? unit=72&lesson=74)

Consider the program below. Fill in the blanks at LINE-1 and LINE-2 to define appropriate
destructors such that it matches given test cases. *Do not change any other part of the code.*

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	2	1 4 4 2	1 4 4 2	Passed

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

Assignment submitted on 2020-10-29, 23:10 IST
Your last recorded submission was :

```
 1  #include <iostream>
 2  using namespace std;
 3
 4  class Test {
 5  public:
 6      Test() { cout << "1 "; }
 7
 8    virtual ~Test();    // LINE-1
 9
10  };
11
12  Test::~Test() { cout << "2 "; }
13
14  class DerivedTest : public Test {
15  public:
16      DerivedTest() { cout << "3 "; }
17      DerivedTest(int i) { cout << 2 * i << " "; }
18
19    ~DerivedTest();    // LINE-2
20
21  };
22
```

```cpp
23 DerivedTest::~DerivedTest() { cout << "4 "; }
24
25 int main() {
26     int n;
27     cin >> n;
28
29     DerivedTest *d = new DerivedTest(n);
30     Test *t = d;
31
32     delete t;
33
34     return 0;
35 }
```

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)