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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

- Module 21 : Inheritance : Part I (Lecture 36) (unit? unit=64&lesson=65)
- Module 22 : Inheritance : Part II (Lecture 37) (unit? unit=64&lesson=66)
- Module 23 : Inheritance : Part III (Lecture 38)

W5_Programming-Qs2

Due on 2020-10-22, 23:59 IST

Consider the following program. Fill in the blanks in LINE-1 such that global function dist

can access private member of class Coordinate. Fill in the blanks at LINE-2 and LINE-3 to

complete constructor definition. Consider the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	1021	1.73205 \n	1.73205 \n	Passe d

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-10-22, 23:33 IST

Your last recorded submission was :

```
1 #include <iostream>
   #include <cmath>
 5
   using namespace std;
   class Coordinate {
       int x, y, z;
10
11
   public:
       Coordinate(int x, int y, int z = 0) : x(x), y(y), z(z) {
12
13
       friend double dist(Coordinate &c1, Coordinate &c2); // LINE-1
14
15 };
17 class TwoDCoordinate : public Coordinate {
```

```
(unit?
                            19
20
                                public:
 unit=64&lesson=67)
                            21
22
23
24
25
26
27
28
29
30
                                     TwoDCoordinate(int _x,int _y,int _z=0) : // LINE-2
Module 24 :
 Inheritance: Part
                                         Coordinate(_x, _y, _z) { }
                                };
 IV (Lecture 39)
 (unit?
                                class ThreeDCoordinate : public Coordinate {
 unit=64&lesson=68)
                                public:
Module 25 :
                                     ThreeDCoordinate(int _x,int _y,int _z) : // LINE-3
 Inheritance: Part
                            31
 V (Lecture 40)
                            32
33
                                         Coordinate(_x, _y, _z) { }
                               (unit?
                            34
35
36
37
38
 unit=64&lesson=69)

    Lecture Materials

 (unit?
                            39
 unit=64&lesson=70)
                               int main() {
   int x1, y1, x2, y2, z2;
   cin >> x1 >> y1 >> x2 >> y2 >> z2;
                            40
                            41
Quiz :
                            42
                            43
 Assignment 5
                                    TwoDCoordinate t1(x1, y1);
ThreeDCoordinate t2(x2, y2, z2);
                            44
 (assessment?
                            45
 name=153)
                            46
                            47
                                     cout << dist(t1, t2) << endl;</pre>
W5_Programming-
                            48
                                     return 0;
                            49
                            50 }
 (/noc20_cs57/progassignm.....
 name=149)
W5_Programming-
```

- W5_Programming-Qs2 (/noc20_cs57/progassignment? name=156)
- W5_Programming-Qs3 (/noc20_cs57/progassignment? name=157)
- Feedback For Week 5 (unit? unit=64&lesson=71)

Week 6

Week 7

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