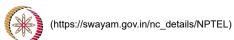
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in C++ (course)

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

Week 8

Module 36:
Exceptions (Error
Handling in C):
Part I (Lecture
52) (unit?
unit=89&lesson=90)

W8 Programming-Qs3

Due on 2020-11-12, 23:59 IST

Consider the following program. Class mytype must be a generic type. So fill in the blank at LINE-1 with the proper template declaration. Fill in the blank at LINE-2 with appropriate header for the function to add two mytype objects, and also fill in the blank at LINE-3 with appropriate return statement such that it satisfies the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	7 900 54 300 7.85 9.12 90 0.01 6.55	61, 1200 \n 907.86, 1 5.67\n	61, 1200 \n 907.86, 1 5.67\n	Pas sed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-12, 23:47 IST

Your last recorded submission was :

```
1 #include <iostream>
    using namespace std;
    template<class T=int>
                                       // LINE-1
    class mytype {
          T a, b;
 6
    public:
          mytype(T _a, T _b) : a(_a), b(_b) { }
mytype operator+(const mytype& ob) { // LINE-2
   return mytype(a+ob.a, b+ob.b); // LINE-3
 9
10
11
12
                cout << à << ", " << b << endl;
13
14 };
```

```
16 int main() {
17    int i1, i2, i3, i4;
18    cin >> i1 >> i2 >> i3 >> i4;
O Module 37:
   Exceptions (Error
                                         19
   Handling in C):
                                         20
21
22
                                                     mytype<> obj1(i1, i2);
mytype<> obj2(i3, i4);
mytype<> obj3 = obj1 + obj2;
   Part II (Lecture
   53) (unit?
                                         23
24
25
26
27
28
29
31
32
33
   unit=89&lesson=91)
                                                     double d1, d2, d3, d4;
cin >> d1 >> d2 >> d3 >> d4;
O Module 38:
   Template
                                                     mytype<double> obj4(d1, d2);
mytype<double> obj5(d3, d4);
mytype<double> obj6 = obj4 + obj5;
   (Function
   Template): Part I
   (Lecture 54)
                                                     obj3.show();
obj6.show();
   (unit?
   unit=89&lesson=92)
                                         34
                                                     return 0;
                                         35 }
Module 39 :
   Template
   (Function
   Template): Part II
   (Lecture 55)
   (unit?
   unit=89&lesson=93)
```

Module 40 :
Closing
Comments
(Lecture 56)
(unit?

unit? unit=89&lesson=94)

Lecture Materials (unit? unit=89&lesson=95)

Quiz :

Assignment 8 (assessment? name=176)

W8_Programming-Qs1 (/noc20_cs57/progassignment? name=178)

W8_Programming-Qs2 (/noc20_cs57/progassignment? name=179)

W8_Programming-Qs3 (/noc20_cs57/progassignment? name=180)

W8_Programming-Qs4 (/noc20_cs57/progassignment? name=181) Feedback For Week 8 (unit? unit=89&lesson=96)

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)