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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » **Programming in C++ (course)**
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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>
2 using namespace std;
3 template<class T=int>    // LINE-1
4 class mytype {
5     T a, b;
6 public:
7     mytype(T _a, T _b) : a(_a), b(_b) { }
8     mytype operator+(const mytype& ob) { // LINE-2
9         return mytype(a+ob.a, b+ob.b); // LINE-3
10    }
11    void show() {
12        cout << a << ", " << b << endl;
13    }
14 };
15
```

- Module 37 :
Exceptions (Error
Handling in C) :
Part II (Lecture
53) (unit?
unit=89&lesson=91)
- Module 38 :
Template
(Function
Template) : Part I
(Lecture 54)
(unit?
unit=89&lesson=92)
- Module 39 :
Template
(Function
Template) : Part II
(Lecture 55)
(unit?
unit=89&lesson=93)
- Module 40 :
Closing
Comments
(Lecture 56)
(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)

```

16 int main() {
17     int i1, i2, i3, i4;
18     cin >> i1 >> i2 >> i3 >> i4;
19
20     mytype<> obj1(i1, i2);
21     mytype<> obj2(i3, i4);
22     mytype<> obj3 = obj1 + obj2;
23
24     double d1, d2, d3, d4;
25     cin >> d1 >> d2 >> d3 >> d4;
26
27     mytype<double> obj4(d1, d2);
28     mytype<double> obj5(d3, d4);
29     mytype<double> obj6 = obj4 + obj5;
30
31     obj3.show();
32     obj6.show();
33
34     return 0;
35 }

```

☐ Feedback For
Week 8 (unit?
unit=89&lesson=96)

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**Live Interactive
Session**

**Programming Test
(11th Dec):
Session-1
(10.00AM -
11.00AM)**

**Programming Test
(11th Dec):
Session-2 (8.00PM
- 9.00PM)**