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(https://swayam.gov.in) (https://swayam.gov.in/nc_details/NPTEL)

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

Register for Certification exam (https://examform.nptel.ac.in/2023_01/exam_form/dashboard)

Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

- Lecture 16 : Static Members (unit?unit=52&lesson=53)
- Lecture 17 : Friend Function and friend Class

W4_Programming_Qs-3

Due on 2023-02-23, 23:59 IST

Consider the following program. Fill in the blanks as per the instructions given below:

- at LINE-1 to complete operator overload function,
- at LINE-2 and LINE-3 to calculate subtraction of two position class.

such that it will satisfy the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	5 2 6 1	(-1, 1)	(-1, 1)	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-02-20, 18:26 IST

Your last recorded submission was :

```
1  #include<iostream>
2  using namespace std;
3  class position{
4      int x, y;
5      public:
6          position(int a, int b) : x(a), y(b) {}
7  position operator-(const position& p1){ //LINE-1
8
9              position p(0,0);
10
11             p.x = x-p1.x; //LINE-2
12
13             p.y = y-p1.y; //LINE-3
14             return p;
15         }
16
17         void print(){ cout << "(" << x << ", " << y << ")"; }
18 };
19
20 int main(){
21     int x1,y1,x2,y2;
22     cin >> x1 >> y1 >> x2 >> y2;
23     position p1(x1,y1), p2(x2,y2), p3(0,0);
```

(unit?
unit=52&lesson=54)

- Lecture 18 : Overloading Operator for User-Defined Types: Part 1 (unit? unit=52&lesson=55)
- Lecture 19 : Overloading Operator for User-Defined Types: Part 2 (unit? unit=52&lesson=56)
- Lecture 20 : Namespace (unit? unit=52&lesson=57)
- Tutorial 04 : How to build a C/C++ program?: Part 4: Static and Dynamic Library (unit? unit=52&lesson=58)
- Week 4 Lecture Material (unit? unit=52&lesson=59)
- Quiz: Week 4 : Assignment 4 (assessment? name=177)
- W4_Programming_Qs-1 (/noc23_cs50/progassignment? name=178)
- W4_Programming_Qs-2 (/noc23_cs50/progassignment? name=179)
- **W4_Programming_Qs-3 (/noc23_cs50/progassignment? name=180)**
- Week 4 Feedback

```
24      p3 = p1-p2;
25      p3.print();
26      return 0;
27  }
```