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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 ()

W7_Programming_Qs-3

Due on 2023-03-16, 23:59 IST

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

- at `LINE-1` to complete the constructor definition,
- at `LINE-2` to complete the function header to overload operator for type-casting to char,
- at `LINE-3` to complete the function header to overload operator for type-casting to int,

such that it will satisfy the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	`Z`	`z: position is 26`	`z: position is 26`	`Passed`

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

- Lecture 31 : Virtual Function Table (unit?unit=82&lesson=83)
- Lecture 32 : Type Casting & Cast Operators: Part 1 (unit?unit=82&lesson=84)
- Lecture 33 : Type Casting & Cast Operators: Part 2 (unit?unit=82&lesson=85)
- Lecture 34 : Type Casting & Cast Operators: Part 3 (unit?unit=82&lesson=86)
- Lecture 35 : Multiple Inheritance (unit?unit=82&lesson=87)
- Tutorial 07 : How to design a UDT like built-in types?: Part 1: Fraction UDT (unit?unit=82&lesson=88)

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-03-13, 18:26 IST

Your last recorded submission was :

```
#include<iostream>
#include<cctype>
using namespace std;
class classChar{
    char ch;
    public:
        classChar (char _ch) : ch(tolower(_ch)){} //LINE-1
        operator char() const { return ch; } //LINE-2
        operator int() const { return ch - 'a' + 1; } //LINE-3
};
int main(){
    char c;
    cin >> c;
    classChar cb = c;
    cout << (char)cb << ": position is " << int(cb);
    return 0;
}
```

- Week 7 Lecture Material (unit?unit=82&lesson=89)
- Quiz: Week 7 : Assignment 7 (assessment?name=191)
- W7_Programming_Qs-1 (/noc23_cs50/progassignment?name=194)
- W7_Programming_Qs-2 (/noc23_cs50/progassignment?name=193)
- **W7_Programming_Qs-3 (/noc23_cs50/progassignment?name=195)**
- Week 7 Feedback Form (unit?unit=82&lesson=90)
- Assignment 7 Solution (unit?unit=82&lesson=91)

Week 8 ()

Download Videos ()

Books ()

Transcripts ()

Problem Solving Session ()