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



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W7_Programming_Qs-2

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

Consider the following program with the following instructions.

- Fill in the blank at LINE-1 to complete constructor definition.
- Fill in the blank at LINE-2 to complete assignment operator overload function signature.
- Fill in the blank at LINE-3 to complete integer cast operator overload function signature.

The program must satisfy the sample input and output.

Private Test cases used for evaluation

Test Case 1

Input

5
1 2 3 4 5

Expected Output

5 4 3 2 1

Actual Output

5 4 3 2 1

Status

Passed

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 ()**

- ☐ 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, 18:23 IST

Your last recorded submission was :

```

1 #include<iostream>
2 using namespace std;
3 class intString{
4     int *arr;
5     int n;
6     mutable int index;
7     public:
8         intString(int k) : n(k), arr(new int[k]), index(k-1){} //LINE-1
9         operator int()const{ //LINE-2
10             return arr[index--];
11         }
12         intString& operator=(int &k){ //LINE-3
13             int t;
14             for(int j = 0; j < k; j++){
15                 cin >> t;
16                 this->arr[j] = t;
17             }
18             return *this;
19         }
20 };
21 int main(){
22     int k;
23     cin >> k;
24     intString s(k);
25     s = k;
26     for(int i = 0; i < k; i++)
27         cout << static_cast<int>(s) << " ";
28     return 0;
29 }
```

- 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 ()**

