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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

☐ Module 31 :
Virtual Function
Table (Lecture
46) (unit?
unit=80&lesson=81)

☐ Module 32 : Type
Casting and Cast
Operators : Part I
(Lecture 47)

W7_Programming-Qs4

Due on 2020-11-05, 23:59 IST

Consider the following program. Fill in the blank at LINE-1 with appropriate initializer statement for the class constructor. Fill in the blanks at LINE-2 and LINE-3 with appropriate function headers for operator overloading such that it satisfies the given test cases.

Private Test cases used for evaluation

Test Case 1

Input

```
5
9 1 2 3
5
```

Expected Output

```
5 3 2 1
9
```

Actual Output

```
5 3 2 1
9
```

Status

Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-05, 22:55 IST

Your last recorded submission was :

```
1 #include <iostream>
2 using namespace std;
3
4 class Container {
5     int i;
6     int *arr;
7 public:
8     Container(int k) : i(k),arr(new int[k]){ } // LINE-1
9
10    operator int() { // LINE-2
11        return arr[--i];
12    }
13
14    Container& operator =(int k){ // LINE-3
15        int t;
16        for (int j = 0; j < k; j++){
17            cin >> t;
```

(unit?
unit=80&lesson=82)

Module 33 : Type
Casting and Cast
Operators : Part
II (Lecture 48)
(unit?
unit=80&lesson=83)

Module 34 : Type
Casting and Cast
Operators : Part
III (Lecture 49)
(unit?
unit=80&lesson=84)

Module 35 :
Multiple
Inheritance
(Lecture 50)
(unit?
unit=80&lesson=85)

Module 35 :
Multiple
Inheritance
(Contd.) (Lecture
51) (unit?
unit=80&lesson=86)

Lecture Materials
(unit?
unit=80&lesson=87)

Quiz :
Assignment 7
(assessment?
name=170)

W7_Programming-
Qs1
(/noc20_cs57/progassignment?
name=171)

W7_Programming-
Qs2
(/noc20_cs57/progassignment?
name=172)

W7_Programming-
Qs3
(/noc20_cs57/progassignment?
name=173)

W7_Programming-
Qs4
(/noc20_cs57/progassignment?
name=174)

```

18         this->arr[j] = t;
19     }
20     return *this;
21 }
22 };
23
24 int main() {
25     int k;
26     cin >> k;
27
28     Container c(k);
29     c = k;
30
31     for (int i = 0; i < k; i++)
32         cout << static_cast<int>(c) << " ";
33
34     return 0;
35 }

```

☐ Feedback For
Week 7 (unit?
unit=80&lesson=88)

Week 8

**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)**