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



Register for Certification
exam

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W3_Programming_Qs-3

Due on 2023-02-16, 23:59 IST

Course outline

How does an NPTEL
online course work? ()

Week 0 ()

Week 1 ()

Consider the program below.

- Fill in the blank at LINE-1 to complete parameterized constructor
- Fill in the blank at LINE-2 to complete copy constructor
- Fill in the blank at LINE-3 to complete return statement

The `area()` evaluates the area of the given right-angled triangle.

The program must satisfy the given test cases.

Private Test cases used for evaluation

Test Case 1

Input	Expected Output	Actual Output	Status
8 4	16	16	Passed

The due date for submitting this assignment has passed.



Week 2 ()**Week 3 ()**

- Lecture 11 : Classes and Objects (unit? unit=42&lesson=43)
- Lecture12 : Access Specifiers (unit? unit=42&lesson=44)
- Lecture 13 : Constructors, Destructors & Object Lifetime (unit? unit=42&lesson=45)
- Lecture 14 : Copy Constructor and Copy Assignment Operator (unit?unit=42&lesson=46)
- Lecture 15 : Const-ness (unit?unit=42&lesson=47)
- Tutorial 03 : How to build a C/C++ program?: Part 3: make Utility (unit? unit=42&lesson=48)
- Week 3 Lecture Material (unit?unit=42&lesson=49)
- Quiz: Week 3 : Assignment 3 (assessment?name=172)
- W3_Programming_Qs-1 (/noc23_cs50/progassignment?)

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-02-15, 20:34 IST

Your last recorded submission was :

```

1 #include <iostream>
2 using namespace std;
3 class triangle{
4     int *b, *h;
5     public:
6         triangle(int _b, int _h) : b(new int(_b)), h(new int(_h)){} //LINE-1
7
8         triangle(triangle &t) : b(new int(*(t.b))), h(new int(*(t.h))){} //LINE-2
9
10        ~triangle(){ delete b; delete h; }
11
12        int area(){ return (int)((*b)*(*h))/2; } //LINE-3
13 };
14 int main(){
15     int a, b;
16     cin >> a >> b;
17     triangle *tri = new triangle(a, b);
18     cout << tri->area();
19     return 0;
20 }
```



name=173)

☒ W3_Programming_Qs-2
(/noc23_cs50/progassignment?
name=174)

☒ **W3_Programming_Qs-3**
(/noc23_cs50/progassignment?
name=175)

☐ Week 3 Feedback Form
(unit?unit=42&lesson=50)

☐ Assignment 3 Solution
(unit?unit=42&lesson=51)

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Download Videos ()

Books ()

Transcripts ()

**Problem Solving
Session ()**



