













Points: 370.00 Rank: 7312



Dashboard > C++ > Inheritance > Rectangle Area

Rectangle Area



by Skr379

Problem

Submissions

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Create two classes:

Rectangle

The Rectangle class should have two data fields-width and height of int types. The class should have display() method, to print the width and height of the rectangle separated by space.

RectangleArea

The RectangleArea class is derived from Rectangle class, i.e., it is the sub-class of Rectangle class. The class should have read_input() method, to read the values of width and height of the rectangle. The RectangleArea class should also overload the display() method to print the area (width × height) of the rectangle.

Input Format

The first and only line of input contains two space separated integers denoting the width and height of the rectangle.

Constraints

• $1 \leq \mathtt{width}, \mathtt{height} \leq 100$

Output Format

The output should consist of exactly two lines:

In the first line, print the width and height of the rectangle separated by space.

In the second line, print the area of the rectangle.

Sample Input

10 5

Sample Output

10 5 50

Explanation

As, width =10 and height =5, so area = width \times height =50

Submissions: 12486 Max Score: 25 Difficulty: Easy

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More

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```
C++
  Current Buffer (saved locally, editable) & 🗗
 1 ▶ #include ↔
 2
 3
    using namespace std;
 4 ▼ class Rectangle{
 5
         public:
 6
         int width,height;
 7
         void display()
 8 ▼
 9
             cout<<width<<" "<<height<<endl;</pre>
10
11 };
   class RectangleArea:public Rectangle
12
13 ▼ {
         int area;
         public:
14
15
         void read_input()
16 ▼
17
             cin>>width>>height;
18
         }
19
         void display()
20 ▼
         { area=width*height;
           cout<<area<<endl;</pre>
21
22
23
     };
24
25
26
    int main()
27 ▼ {
28 ▼
          * Declare a RectangleArea object
29
30
         RectangleArea r_area;
31
32
33 ▼
          * Read the width and height
34
35
36
         r_area.read_input();
37
38 ▼
          * Print the width and height
39
40
41
         r_area.Rectangle::display();
42
43 ▼
          * Print the area
44
45
46
         r_area.display();
47
48
         return 0;
49
    }
                                                                                                                      Line: 14 Col: 12
                                                                                                                         Submit Code
1 Upload Code as File
                       Test against custom input
                                                                                                           Run Code
```

```
Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2
```

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