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Dashboard > C++ > Inheritance > Rectangle Area

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Rectangle Area



h by Skr379

Problem

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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

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

• $1 \le \text{width}, \text{height} \le 100$

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

Explanation

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



Submitted 18505 times Max Score 25

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Suggest Edits

f ⊌ in

```
C++14
                                                                                                                 5 7
2 3
Current Buffer (saved locally, editable) & • •
                                                                                                                       *
 1 ▼ #include <iostream>
 3 using namespace std;
 4 class Rectangle
 5 ▼ {
 6 protected:
        int m_width;
 7
 8
        int m_height;
 9 public:
10
        void display()
11 ▼
             std::cout << m_width << " " << m_height << std::endl;</pre>
12
13
14 };
15 class RectangleArea: public Rectangle
16 ▼ {
17 | public:
18
        void read_input()
19 ₹
20
             std::cin >> m_width >> m_height;
21
22
        void display()
23 ▼
         {
             std::cout << m_width * m_height << std::endl;</pre>
24
25
26
    };
27
28 int main()
29 ₹ {
30 ▼
         * Declare a RectangleArea object
31
32
33
         RectangleArea r_area;
34
35 ▼
         * Read the width and height
36
37
38
         r_area.read_input();
39
40 ▼
         * Print the width and height
41
42
         r_area.Rectangle::display();
43
44
45 ▼
         * Print the area
46
47
48
         r_area.display();
49
50
         return 0;
51
    }
                                                                                                              Line: 26 Col: 3
```

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<u>Upload Code as File</u> Test against custom input

Congrats, you solved this challenge! Challenge your friends: f y in		
✓ Test Case #0	✓ Test Case #1	✓ Test Case #2
✓ Test Case #3	✓ Test Case #4	✓ Test Case #5
✓ Test Case #6	✓ Test Case #7	✓ Test Case #8
✓ Test Case #9	✓ Test Case #10	

Run Code

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