



Challenge 1: Calculate the Area of a Rectangle Using Pointers

Test your knowledge by solving a challenge in this lesson.

We'll cover the following



- Problem statement
 - Sample input
 - Sample output
- Coding exercise

Problem statement#

Your task is to write a function `area`. In the function parameter, you will pass the three pointers of type `int` in its input parameters.

```
void area ( double *length , double *width , double *result ) ;
```

Your function should calculate the area of the rectangle and store the output in the `result`. The formula for calculating the area of the rectangle is given below:

$$\text{Area of rectangle} = \text{length} * \text{width}$$



Rectangle



Sample input#


```
double length = 4.5, width = 6.7, result = 0;  
area (&length, &width, &result);
```

Sample output#

```
result = 30.15
```

Coding exercise#

Before diving directly into the solution, try to solve it yourself. Then check if your code passes all the test cases.

 Your function name should be the `area` . Otherwise, your code will not compile.

Good luck! 🍀

```

1 void area(double * length, double * width, double * result) {
2     // Write your code here
3     *result = *length * *width;
4 }

```



Show Results

Show Console



1.26s

2 of 2 Tests Passed

Result	Input	Expected Output	Actual Output	Reason
✓	*length = 4.500000 , *width = 6.700000	*result = 30.150000	*result = 30.150000	Succeeded
✓	*length = 567.300000 , *width = -28.6000 ...	*result = -16224.780000	*result = -16224.780000	Succeeded

🎉 If you have solved the problem, congratulations!

In case you are stuck, go over the solution review in the next lesson.

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Next →

Function and Pointers

Solution Review: Calculate the Area of...

✓ Completed



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