

# Solution Review: Calculate the Area of a Rectangle Using Pointers

Let's go over the solution review of the challenge given in the previous lesson.

## We'll cover the following

- Solution
- Explanation
  - area function

## Solution #

Press the **RUN** button and see the output!

```
#include <iostream>

using namespace std;

// area function
void area(double * length, double * width, double * result) {
    // Calculte area of rectangle
    * result = * length * * width;
}

// main function
int main() {
    // Initialize variables length and width
    double length = 8.9, width = 2.1;
    // Initialize variable result
    double result = 0;
    // Print value of result before function call
    cout << "Before calling function area:" << endl;
    cout << "result = " << result << endl;
    // Call function area and pass the address of variables
    area( & length, & width, & result);
    // Print value of result after function call
    cout << "After calling function area:" << endl;
    cout << "result = " << result << endl;
    return 0;
}
```



# Explanation #

## area function #

The `area` function takes three pointers of type `double` in its input parameters.

**Line No. 8:** We know that we can access the value of the variable to which pointer is pointing to using dereference operator `*`. Multiply the value the `length` is pointing to by the value `width` is pointing to and then store the output in the variable of pointer type `result`.

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Let's solve a slightly more difficult challenge in the upcoming lesson.