Challenge 1: Calculate the Area of a Rectangle Using Pointers

Let's test our knowledge by solving a challenge in this lesson.

Problem statement

In this challenge, 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:

$$Area\ of\ rectangle\ =\ length\ *\ width$$

Rectangle
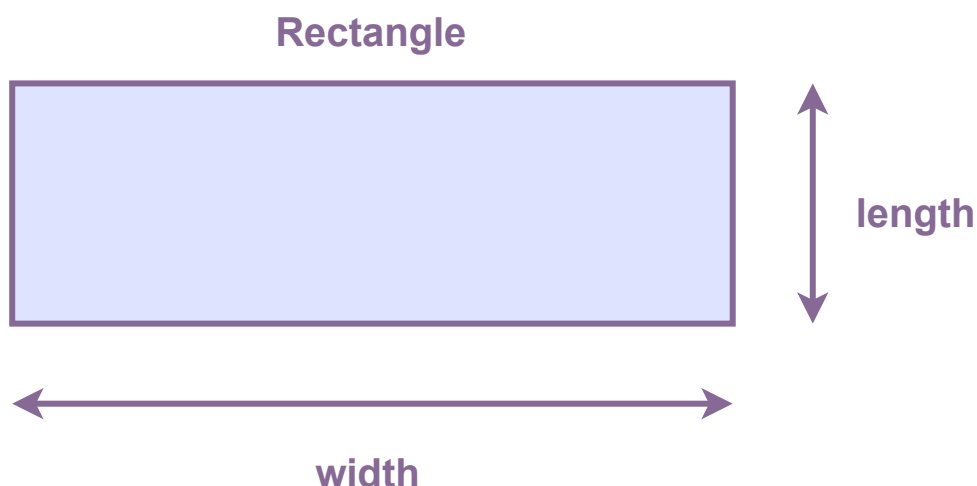
length

width

```
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, first, try to solve it yourself, and then check if your code passes all the test cases. If you get stuck, you can always see the given solution.

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

Good Luck! 👍

```
void area(double * length, double * width, double * result) {
  // Write your code here
}
```

🎉 If you have solved the problem, congratulations!

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