Challenge 2: Calculate the Sum and Absolute Difference

Let's test your knowledge by solving a slightly difficult challenge in this lesson.

We'll cover the following

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

Problem statement

In this challenge, your task is to write a function `sum_difference`. In the function parameter, you will pass the two pointers of type `int`, and the function will return nothing in the output.

```
void sum_difference ( int *value1 , int *value2 ) ;
```

Your function should:

Task 1: Sum the values pointed by `value1` and `value2` and store the result in the location pointed by `value1`.

Task 2: Calculate the absolute difference of the value pointed out by `value1` and `value2` (Subtract the value pointed out by `value1` from the value pointed by `value2`, and your answer should be positive). Store the result in the location pointed by `value2`.

Sample input

```
int value1 = 2 , value2 = 6;
sum_difference (&value1, &value2)
```

Sample output

```
value1 = 8
value2 = 4
```

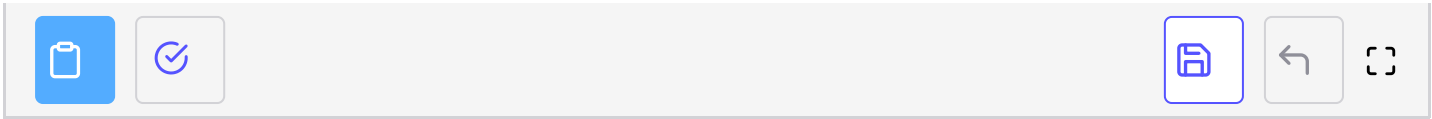
Coding exercise

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 `sum_difference`. Else, your code will not compile.

Good Luck! 👍

```
void sum_difference (int * value1, int * value2) {
  // 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.