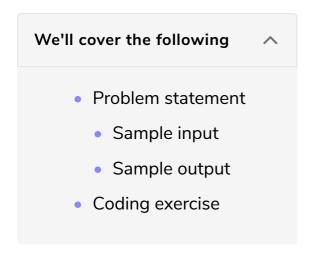
## Challenge 4: Add Main Diagonal Elements in a Matrix

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



#### Problem statement #

In this challenge, your task is to write a function add\_diagonal. Your function signature would be:

```
int add_diagonal (int arr [3][3], int row, int col)
```

The input array arr[][] will contain the values of type int. Your task is to add the elements in the main diagonal of the matrix.

 $\fbox{\ }$  The row and column index of the main diagonal elements are the same.

#### Sample input #

```
add_diagonal ({1, 2, 3}, {4, 5, 6}, {7, 8, 9}, 3, 3);
```

### Sample output #

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.

Please don't modify the given function add\_diagonal . Else, your code will
not pass the test cases.

#### Good Luck! 🐴



have solved the problem, congratulations!

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