



Challenge 2: Count the Digits in a Number Using Recursion

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 recursive function `count_digits`. In the function parameter, you will pass the value of type `int`, and function will return an `int` value in the output.

```
int count_digits ( int number );
```

Your function should count the total number of digits in a `number` and return the number of digits in output. Your solution should work for both positive and negative values, including 0.

Sample input#




```
count_digits (2436);  
count_digits (1);  
count_digits (-1234);
```

Sample output#

```
digits = 4  
digits = 1  
digits = 4
```

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 `count_digits` .

 Please write a recursive solution to the problem.

Good luck! 🍀

```
1  /* Write your recursive function count_digits here  
2  The function should take the value of type int in its input parameters  
3  and return int value in the output*/  
4  
5  int count_digits(int number) {  
6  
7      return 0;  
8  }
```



🎉 If you have solved the problem, congratulations!

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

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Solution Review: Calculate the Power ...

Solution Review: Count the Digits in a ...



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