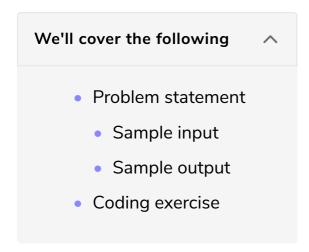
Challenge 2: Count the Digits in a Number Using Recursion

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



Problem statement

In this challenge, your task is to write a recursive function <code>count_digits</code>. In the function parameter, you will pass the value of type <code>int</code>, and function will return an <code>int</code> 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

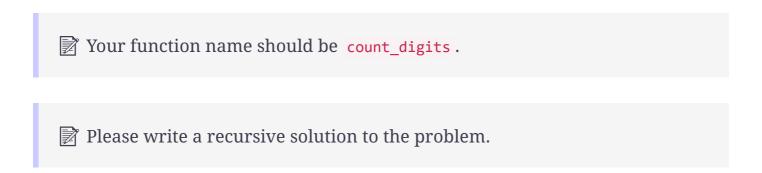
```
count_digits (2436);
count_digits (1);
count_digits (-1234);
```

Sample output

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

Coding exercise

Before diving directly into the solution, 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.



Good Luck! 👍



If you have solved the problem, congratulations!

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