Challenge 1: Calculate the Power of a Number Recursively

Test your knowledge by solving a challenge in this lesson.

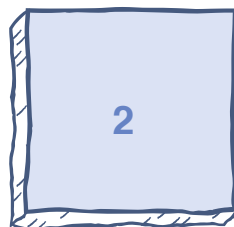**We'll cover the following** ^

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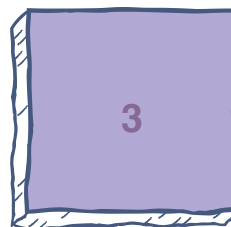 - Sample input
  - Sample output
- Coding exercise

Problem statement#

Your task is to write a recursive function `power`. In the function parameter, you will pass `base` and the `exponent` of type `int` and the function will return an `int` value in the output.
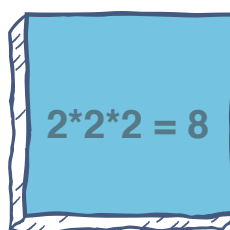
int **power** (int **base** , int **exponent**)

Your function should calculate the base raised to the power exponent recursively and return the result in the output.

Sample input#

```
power (2 , 3);
```

Sample output#

```
8
```

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 `power`.

> 📝 Please write a recursive solution to this problem.

Good luck! 👍

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

🎉If you have solved the problem, congratulations!

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