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6640 QPoints



azimjan_bo

Quest06

Track Bootcamp C Arc 02



[Subject](#)

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Quest06

Remember to git add && git commit && git push each exercise!

We will execute your function with our test(s), please DO NOT PROVIDE ANY TEST(S) in your file

For each exercise, you will have to create a folder and in this folder, you will have additional files that contain your work. Folder names are provided at the beginning of each exercise under **submit directory** and specific file names for each exercise are also provided at the beginning of each exercise under **submit file(s)** .

Quest06	My Iterative Pow
Submit directory	ex00
Submit file	my_iterative_pow.c

Description

2 ^ 2 => 4
2 ^ 3 => 8
2 ^ 4 => 16

Let's create a function to calculate the pow of a number!

Control Center

Also working on the project



[erkino_as](#)



[qoraxoja_m](#)



[kader_h](#)



[abdurash_x](#)

Just finished



[kapadze_i](#)

Type	Project
Group Size	1 Participant
Review system	Test Review (Gandalf)
Difficulty	Initiation
Average duration	1 Week

Project's Metadata

Track

Proiect

Create an iterated function that returns the value of a power applied to a number. An power lower than 0 returns **0** . Overflows don't have to be handled.

First parameter is the number, second parameter is the **power**

You have to use a **loop** (for/while/...) to perform this exercise

Function prototype (c)

```
/*
**
** QWASAR.IO -- my_iterative_pow
**
** @param {int} param_1
** @param {int} param_2
**
** @return {int}
**
*/

int my_iterative_pow(int param_1, int param_2)
{

}
```

Example 00

Input: 2 && 2

Output:

Return Value: 4

Example 01

Input: 2 && 3

Output:

Return Value: 8

Example 02

Input: 2 && 4

Output:

Return Value: 16

id: 1205	id: 37
name: Bootcamp C Arc 02	name: quest06
visible: True	visible: True

Quest06	My Recursive Pow
Submit directory	ex01
Submit file	my_recursive_pow.c

Description

2 ^ 2 => 4
2 ^ 3 => 8
2 ^ 4 => 16

Let's create a function to calculate the pow of a number!

Create an iterated function that returns the value of a power applied to a number. An power lower than 0 returns 0 . Overflows don't have to be handled.
First parameter is the number, second parameter is the power
You have to use the recursive method to perform this exercise. While / for / any loop are forbidden.

Function prototype (c)

```
/*
**
** QWASAR.IO -- my_recursive_pow
**
** @param {int} param_1
** @param {int} param_2
**
** @return {int}
**
*/

int my_recursive_pow(int param_1, int param_2)
{

}
```

Example 00

Input: 2 && 2
Output:
Return Value: 4

Example 01

Input: 2 && 3
Output:
Return Value: 8

Example 02

Input: 2 && 4
Output:
Return Value: 16

Tip
Google the following: recursive programming

Quest06	My Iterative Factorial
Submit directory	ex02
Submit file	my_iterative_factorial.c

Description

2! => 2 x 1 => 2
3! => 3 x 2 x 1 => 6
4! => 4 x 3 x 2 x 1 => 24

Let's create a function to calculate the **factorial** of a number!

Create an iterated function that returns a number. This number is the result of a factorial operation based on the number given as a parameter.

If there's an error, the function should return **0** .

You have to use a **loop** (for/while/...) to perform this exercise

Function prototype (c)

```
/*
**
** QWASAR.IO -- my_iterative_factorial
**
** @param {int} param_1
**
** @return {int}
**
*/

int my_iterative_factorial(int param_1)
{

}
```

Example 00

Input: 2
Output:
Return Value: 2

Example 01

Input: 3
Output:
Return Value: 6

Example 02

Input: 4
Output:
Return Value: 24

Quest06	My Recursive Factorial

Submit directory	ex03
Submit file	my_recursive_factorial.c

Description

2! => 2 x 1 => 2
3! => 3 x 2 x 1 => 6
4! => 4 x 3 x 2 x 1 => 24

Let's create a function to calculate the **factorial** of a number!

Create an iterated function that returns a number. This number is the result of a factorial operation based on the number given as a parameter.

If there's an error, the function should return **0** .
You have to use the recursive method to perform this exercise. While / for / any loop are forbidden.

Function prototype (c)

```
/*
**
** QWASAR.IO -- my_recursive_factorial
**
** @param {int} param_1
**
** @return {int}
**
*/

int my_recursive_factorial(int param_1)
{

}
```

Example 00

```
Input: 2
Output:
Return Value: 2
```

Example 01

Input: 3
Output:
Return Value: 6

Example 02

Input: 4
Output:
Return Value: 24

Tip
Google the following: recursive programming

Quest06	My Atoi
Submit directory	ex04
Submit file	my_atoi.c

Description

The atoi() function in C takes a string (which represents an integer) as an argument and returns its value of type int. So basically the function is used to convert a string argument to an integer.
Syntax:

int atoi(const char strn)

Parameters: The function accepts one parameter strn which refers to the string argument that is needed to be converted into its integer equivalent.

Return Value: If strn is a valid input, then the function returns the equivalent integer number for the passed string number. If no valid conversion takes place, then the function returns zero.

Function prototype (c)

```
/*  
**  
** QWASAR.IO -- my_atoi  
**  
** @param {char*} param_1  
**  
** @return {int}  
**  
*/  
  
int my_atoi(char* param_1)  
{  
  
}
```

Example 00

Input: "2"
Output:
Return Value: 2

Example 01

Input: "123"
Output:
Return Value: 123

Example 02

Input: "-10"
Output:
Return Value: -10

Tip

(In C)

Split the number by dividing it, and to get the rest are you aware of the mod operator?

You should google it :)

Quest06	My Fibonacci
Submit directory	ex05
Submit file	my_fibonacci.c

Description

Create a function `my_fibonacci` that returns the `n-th` element of the Fibonacci sequence, the first element being at the 0 index. We'll consider that the Fibonacci sequence starts like this: 0, 1, 1, 2.

If the `value` is less than 0, the function should return -1.

It should be prototyped:

Recursive will be helpful here.

Google fibanacci.

Function prototype (c)

```
/*
**
** QWASAR.IO -- my_fibonacci
**
** @param {int} param_1
**
** @return {int}
**
*/

int my_fibonacci(int param_1)
{

}
```

Example 00

Input: 2

Output:

Return Value: 1

Example 01

Input: 3
Output:
Return Value: 2

Example 02

Input: 4
Output:
Return Value: 3

Tip
Google the following: recursive programming