













Js Quest07

Subject

1 Solution

Additional Resources

(1)

Js Quest07

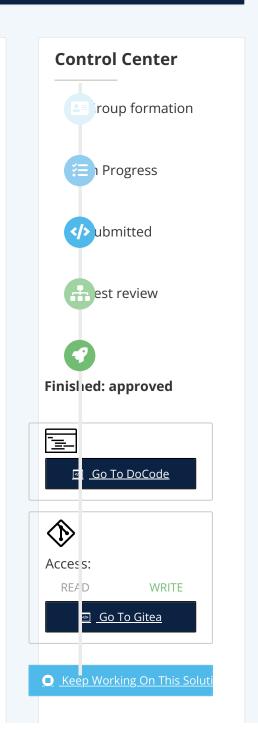
Remember to git add && git commit && git push each exercise!

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).

Introduction

This is the final quest, and we will conclude with one of the big piece of coding is about using the correct data structure.



What is a data structure?

An array is a data structure.

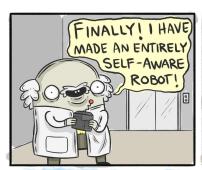
But it's not the only one, hash, queue, stack, linked list, tree, ... they are a lot of different data structure.:D

They can perform different type of operation and specially at different speed OR/AND use of memory.

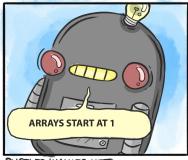
For example an Array is faster to search (and even more if it's sorted) than a Linked list but a Linked list is easier to insert an element in the middle of it.

For this quest you will only need to know how to use an array and a dictionary (or often called a Hash).

Good luck :-)
PS:









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Js Quest07	My Map Mult Two
Submit directory	ex00
Submit file	my_map_mult_two.js

Description

Multiply by 2 each elements of an array.

Looking for a group



<u>lucas v</u>

Also working on the project









<u>abdulla rasulov suxrob risaliev</u> <u>y b _d ov s _e</u>











<u>xujamu to- rahmo isakov</u> <u>ra d xtasi a no az a</u>









<u>somo axmad sodiqo alpeiss</u> vu xo- i vo on









<u>sultono nigmat begimqxudabo</u>









norxoja stupak sodikovsultanb y o ov k ar a y

Just finished









<u>parpiev diyarov</u> <u>muhid</u> <u>uktamo</u>











<u>V</u> S

Create a function my_map_mult_two which receives an integer array as parameter and iterate over the array, perform a multiplication by 2 on each value and return the new array collected.

Function prototype (javascript)

```
/*
    **
    ** QWASAR.IO -- my_map_mult_two
    **
    **
    ** @param {Integer[]} param_1
    ** @return {integer[]}

    **
    */

function my_map_mult_two(param_1) {
};
```

Example 00

```
Input: [1, 2, 3, 4, 5]
Output:
Return Value: [2, 4, 6, 8, 10]
```

Example 01

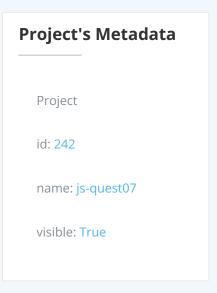
```
Input: []
Output:
Return Value: []
```

Tips

Google while YOURCODINGLANGUAGE Google for YOURCODINGLANGUAGE Google array YOURCODINGLANGUAGE







Js Quest07	My Count On It
Submit directory	ex01
Submit file	my_count_on_it.js

Description

Count the size of each elements in an array.

Create a function my_count_on_it, which receives a string
array as parameter and returns an array with the length of each
strings.

Function prototype (javascript)

```
/*
    **
    ** QWASAR.IO -- my_count_on_it
    **
    **
    ** @param {String[]} param_1
    ** @return {integer[]}

    **
    */

function my_count_on_it(param_1) {
};
```

Example 00

```
Input: ["This", "is", "the", "way"]
Output:
Return Value: [4, 2, 3, 3]
```

Example 01

Input: ["aBc", "AbcE Fgef1"]

Output:

Return Value: [3, 10]

Example 02

Input: ["aBc"]

Output:

Return Value: [3]

Tips

Google while YOURCODINGLANGUAGE Google for YOURCODINGLANGUAGE Google array.length YOURCODINGLANGUAGE

Js Quest07	My Array Uniq
Submit directory	ex02
Submit file	my_array_uniq.js

Description

Create an array without any duplicates.

Create a function <code>my_array_uniq</code>, which receives an integer array as a parameter and returns an array with those integers but without any duplicates.

Function prototype (javascript)

```
/*
**
** QWASAR.IO -- my_array_uniq
**
**
** @param {Integer[]} param_1
** @return {integer[]}

**
*/

function my_array_uniq(param_1) {
};
```

Example 00

```
Input: [1, 1, 2]
Output:
Return Value: [1, 2]
```

Example 01

```
Input: []
Output:
Return Value: []
```

Example 02

```
Input: [1, 1, 1, 2, 3, 4, 1]
Output:
Return Value: [1, 2, 3, 4]
```

Tip
Google filter/uniq YOURCODINGLANGUAGE

Js Quest07	My Average Mark
Submit directory	ex03
Submit file	my_average_mark.js

Description

Hash is a data structure which works like an array but instead of having numerical value as index you can specify "any type" of key:

```
# ARRAY
my_array = [1, 2, 3]
my_array[0] # 1

# HASH
my_hash = {'age' => 34, 'name' => 'Luke'}
my_hash['age'] # 34
my_hash['name'] # Luke
```

Assignment:

You have a test for a class and we want to know the average results for the class. Write a function that takes an array of hash with all of the grades/marks for a given test and returns an average grade for the entire class.

Input are in JSON (be careful ruby users, "string": is not a symbol)

Function prototype (javascript)

```
/*
    **
    ** QWASAR.IO -- my_average_mark
    **
    **
    ** @param {String_integer[]} param_1
    ** @return {float}

    **
    */

function my_average_mark(param_1) {
    };
```

Example 00 Example 00: (In Javascript) John, Margot, Jules, and Marco are in a class together.

Example 01

Example 02

```
Input: []
Output: 0.0
```

Tips

(In Javascript)

For javascript user in order to get the right precision of the floating number, use toFixed().

Google the following: Float variable type

Google the following: what is a Hash (look at dictionary or

technical definition and use cases)

Google the following: Object.keys(hash)

