Data types

**DEADLINE:** 17/02/2019

## FOLDER STRUCTURE

|  |  |
| --- | --- |
| FLX\_homework\_9/\*     └─ task/      └─ FLX\_homework\_9.docx  └─ homework/\*  └─ index.html\*  └─ index.js\*  └─ .eslintrc.js\* | \* ­­­- required |

## TASK

Write all tasks inside index.js file

1. Write function, which returns types of passed parameters (one and more parameters).

findTypes(‘number’) // returns [“string”]

findTypes(null, 5, “hello”) // returns [“object”, “number”, “string”]

2. Write function, which iterates over array and executes function on each element.

executeforEach([1,2,3], function(el) { console.log(el) }) // logs 1 2 3

3. Write function, which returns transformed array based on function, which passed as a parameter. Reuse function from task 2.

mapArray([2, 5, 8], function(el) { return el + 3 }) // returns [5, 8, 11]

4. Write function, which returns filtered array based on function, which passed as a parameter. Reuse function from task 2.

filterArray([2, 5, 8], function(el) { return el > 3 }) // returns [5, 8]

5. Write function, which returns amount of people, who are over 18. Reuse function from task 4

//See input data example in CODE section

getAmountOfAdultPeople(data) // returns 3

6. Write function, which returns array of names of people, who are over 18 , their favorite fruit is banana and their eye color is green. Reuse functions from task 3 and 4.

//See input data example in CODE section

getGreenAdultBananaLovers(data) // returns [‘George]

7. Write function, which returns array of keys of an object.

keys({keyOne: 1, keyTwo: 2, keyThree: 3}) // returns [“keyOne”, “keyTwo”, “keyThree”]

8. Write function, which returns array of values of an object.

values({keyOne: 1, keyTwo: 2, keyThree: 3}) // returns [1, 2, 3]

9. Write function, which returns formatted date.

showFormattedDate(new Date('2019-01-27T01:10:00')) // returns ‘Date: 27 of Jan, 2019’

// every month should be showed as 3 letters (e.g. Feb, Apr or Dec)

10. Write function, which returns true if Year is even, otherwise returns false

isEvenYear(new Date('2019-01-27T01:10:00')) // false

11. Write function, which returns true if Month is even, otherwise returns false

isEvenMonth(new Date('2019-02-27T01:10:00')) // true

## RESTRICTIONS

* Using built–in array or object methods(besides push, hasOwnProperty and date methods)
* Using any external libraries

## CODE

Input data for task 5 and 6.

[

{

"\_id": "5b5e3168c6bf40f2c1235cd6",

"index": 0,

"age": 39,

"eyeColor": "green",

"name": "Stein",

"favoriteFruit": "apple"

},

{

"\_id": "5b5e3168e328c0d72e4f27d8",

"index": 1,

"age": 38,

"eyeColor": "blue",

"name": "Cortez",

"favoriteFruit": "strawberry"

},

{

"\_id": "5b5e3168cc79132b631c666a",

"index": 2,

"age": 2,

"eyeColor": "blue",

"name": "Suzette",

"favoriteFruit": "apple"

},

{

"\_id": "5b5e31682093adcc6cd0dde5",

"index": 3,

"age": 19,

"eyeColor": "green",

"name": "George",

"favoriteFruit": "banana"

}

]

## BEFORE SUBMIT

* In order to use npm package manager you should install nodejs (https://nodejs.org/ )
* Install eslint to check your code (npm install -g eslint)

- open a terminal(or cmd)

- go to *src* folder

- run eslint (i.e. eslint ./js/task1.js)

Code should be without ‘errors’

* Make sure the code is clean, readable, and tested
* Verify that all functionality is implemented according to requirements
* Delete all unnecessary comments
* Validate code via eslint

## SUBMIT

* The folder should be uploaded to github repository '**FLX**' into **master** branch

## USEFUL LINKS

* <https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global_Objects/Date>
* <https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global_Objects/Array/prototype>
* <https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global_Objects/Object/prototype>