## TASK

Write all tasks inside index.js file

0. Write function, which returns array of numbers from string parameter.

getNumbers(‘string’); // returns []

getNumbers(‘n1um3ber95’); // returns [1,3,9,5]

1. Write a function that could receive different amount of parameters (n1, n2, ...n) that have different data types (string, number, boolean, etc.) and returns an object where keys are data types of received parameters and value are their count. For example:

findTypes(‘number’) // returns {“string”:1}

findTypes(null, 5, “hello”) // returns {“object”:1, “number”:1, “string”:1}

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 formatted date.

showFormattedDate(new Date('2019-01-27T01:10:00'))

// returns ‘Date: Jan 27 2019’

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

6. Write function, which returns Boolean value, is received string parameter can be converted to valid date.

canConvertToDate(‘2016-13-18T00:00:00’) // false

canConvertToDate(‘2016-03-18T00:00:00’) // true

7. Write function, which returns difference between two dates in days

daysBetween(new Date('2016-03-18T00:00:00'), new Date('2016-04-19T00:00:00')) // 32

8. Write function, which returns amount of people, who are over 18. Reuse function from task 4,7

//See input data example in CODE section

getAmountOfAdultPeople(data) // returns 3;

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

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

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

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

## PLEASE NOTE

Allowed to use Math.round();

## RESTRICTIONS

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

## CODE

Input data for task 8 and 9.

[

{

"\_id": "5b5e3168c6bf40f2c1235cd6",

"index": 0,

" birthday ": '2016-03-18T00:00:00',

"eyeColor": "green",

"name": "Stein",

"favoriteFruit": "apple"

},

{

"\_id": "5b5e3168e328c0d72e4f27d8",

"index": 1,

" birthday ": '1991-02-11T00:00:00',

"eyeColor": "blue",

"name": "Cortez",

"favoriteFruit": "strawberry"

},

{

"\_id": "5b5e3168cc79132b631c666a",

"index": 2,

" birthday ": '1984-04-17T00:00:00',

"eyeColor": "blue",

"name": "Suzette",

"favoriteFruit": "apple"

},

{

"\_id": "5b5e31682093adcc6cd0dde5",

"index": 3,

" birthday ": '1994-04-17T00:00:00',

"eyeColor": "green",

"name": "George",

"favoriteFruit": "banana"

}

]