# **Data types**

**DEADLINE: 24/08/2022, 23:59** 

### **FOLDER STRUCTURE**

#### **TASK**

Write all tasks inside app.js file.

1. Write a JavaScript function that reverse an integer number.

```
reverseNumber(12345) // returns 54321
reverseNumber(-56789) // returns -98765
```

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

```
forEach([2,5,8], function(el) { console.log(el) }) // logs to
console: 2 5 8
```

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

```
map([2, 5, 8], function(el) { return el + 3; }) // returns [5, 8,
11]
map([1, 2, 3, 4, 5], function (el) { return el * 2; }) // returns
[2, 4, 6, 8, 10]
```

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

```
filter([2, 5, 1, 3, 8, 6], function(el) { return el > 3 }) //
returns [5, 8, 6]
filter([1, 4, 6, 7, 8, 10], function(el) { return el % 2 === 0 })
//returns [4, 6, 8, 10]
```



5. Write function, which returns array of names of people, who are over 18 and their favorite fruit is apple. Reuse functions from task 3 and 4.

```
//See input data example in CODE section
getAdultAppleLovers(data) // returns ['Stein']
```

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

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

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

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

## **RESTRICTIONS**

- Using any built-in array or object methods(besides push)
- Using any external libraries

#### **BEFORE SUBMIT**

Code should be clean, readable, and tested

## **SUBMIT**

• The folder should be uploaded to gitlab repository "SW" into main branch

#### CODE

Input data for task 5.

```
"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": 17,
    "eyeColor": "green",
    "name": "Weiss",
    "favoriteFruit": "banana"
  }
]
```

## **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/pr ototype
- https://developer.mozilla.org/uk/docs/Web/JavaScript/Reference/Global\_Objects/Object/prototype

