Data types

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]
```

8. Write function, which returns formatted date.

```
showFormattedDate(new Date('2018-08-27T01:10:00')) // returns 'It is
27 of Aug, 2018'
// every month should be showed as 3 letters (e.g. Feb, Apr or Dec)
```

RESTRICTIONS

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

- Using any external libraries

CODE

Input data for task 5.

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