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Batch : 9

1. Show an array that is a combination of these 2 arrays

```
function_lodash.js x
20   lastName: "Carrey",
21   age: 54,
22   gender: "male"
23 },
24 {
25   firstName: "Ane",
26   lastName: "Hathaway",
27   age: 40,
28   gender: "female"
29 },
30 ]
31
32 // 1. Show an array that is a combination of these 2 arrays
33 // Function
34 const combineArraysFunc = (arr1, arr2) => {
35   return arr1.concat(arr2)
36 }
37 console.log('Function')
38 console.log(combineArraysFunc(users1, users2))
39
40 // Lodash
41 const combineArrayLodash = _.concat(users1, users2)
42 console.log('Lodash')
43 console.log(combineArrayLodash)
```

```
Run: function_lodash.js x
/Users/raihanromzi/.nvm/versions/node/v18.6.0/bin/node /Users/raihanromzi/Documents/Development/diBimBing/3. Code - Project - PostTest/2. Project : Assignment/4 - Function Lodash/function_lodash.js
Function
[
  { firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' },
  { firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' },
  { firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' },
  { firstName: 'Ane', lastName: 'Hathaway', age: 40, gender: 'female' }
]
Lodash
[
  { firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' },
  { firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' },
  { firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' },
  { firstName: 'Ane', lastName: 'Hathaway', age: 40, gender: 'female' }
]
Process finished with exit code 0
```

2. Show first name of all users

```
function_lodash.js x
34 const combineArraysFunc = (arr1, arr2) => {
35   return arr1.concat(arr2)
36 }
37 // console.log('Function')
38 console.log(combineArraysFunc(users1, users2))
39
40 // Lodash
41 const combineArrayLodash = _.concat(users1, users2)
42 console.log('Lodash')
43 console.log(combineArrayLodash)
44
45 // 2. Show first name of all users
46 // Function
47 const showFirstNameFunc = (arr) => {
48   return arr[0]
49 }
50 console.log('Function')
51 console.log(showFirstNameFunc(users1))
52 console.log(showFirstNameFunc(users2))
53
54 // Lodash
55 console.log('Lodash')
56 console.log(_.head(users1))
57 console.log(_.head(users2))
```

```
Run: function_lodash.js x
/Users/raihanromzi/.nvm/versions/node/v18.6.0/bin/node /Users/raihanromzi/Documents/Development/diBimBing/3. Code - Project - PostTest/2. Project : Assignment/4 - Function Lodash/function_lodash.js
Function
[
  { firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' },
  { firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' },
  { firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' }
]
Lodash
[
  { firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' },
  { firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' },
  { firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' }
]
Process finished with exit code 0
```

3. Show user age under 30 and gender is female

```
function_lodash.js x
46 // 3. Show user age under 30 and gender is female
47 // Function
48 const showAge30FemaleFunc = (arr) => {
49   for (let i = 0; i < arr.length; i++) {
50     if (arr[i]['age'] <= 30 && arr[i]['gender'] === 'female') {
51       return arr[i]
52     }
53   }
54 }
55
56 console.log('Function')
57 console.log(showAge30FemaleFunc(users1))
58 console.log(showAge30FemaleFunc(users2))
59
60 // Lodash
61 console.log('Lodash')
62 let indexFound1 = _.findIndex(users1, predicate: function (o: {...}) {
63   return o.age <= 30 && o.gender === 'female'
64 })
65
66 let indexFound2 = _.findIndex(users2, predicate: function (o: {...}) {
67   return o.age <= 30 && o.gender === 'female'
68 })
69
70 console.log(users1[indexFound1])
71 console.log(users2[indexFound2])
```

```
Run: function_lodash.js x
/Users/raihanromzi/.nvm/versions/node/v18.6.0/bin/node /Users/raihanromzi/Documents/Development/diBimbi/3. Code - Project - PostTest/2. Project : Assignment/4 - Function Lodash/function_lodash.js
Function
{ firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' }
{ firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' }
Lodash
{ firstName: 'Jane', lastName: 'Doe', age: 30, gender: 'female' }
Process finished with exit code 0
```

4. Show user who have first name that starts with "j" (case-insensitive)

```
function_lodash.js x
43 })
44
45 // 4. Show user who have first name that starts with "j" (case-insensitive)
46 const firstNameFunc = (arr) => {
47   for (let i = 0; i < arr.length; i++) {
48     if (arr[i]['firstName'].charAt(0).toLowerCase() === 'j') {
49       return arr[i]
50     }
51   }
52 }
53
54 console.log('Function')
55 console.log(firstNameFunc(users1))
56 console.log(firstNameFunc(users2))
57
58 let indexFound1J = _.findIndex(users1, predicate: function (o: {...}) {
59   return o.firstName.charAt(0).toLowerCase() === 'j'
60 })
61
62 let indexFound2J = _.findIndex(users2, predicate: function (o: {...}) {
63   return o.firstName.charAt(0).toLowerCase() === 'j'
64 })
65
66 console.log('Lodash')
67 console.log(users1[indexFound1J])
68 console.log(users2[indexFound2J])
```

```
Run: function_lodash.js x
/Users/raihanromzi/.nvm/versions/node/v18.6.0/bin/node /Users/raihanromzi/Documents/Development/diBimbi/3. Code - Project - PostTest/2. Project : Assignment/4 - Function Lodash/function_lodash.js
Function
{ firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' }
{ firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' }
Lodash
{ firstName: 'John', lastName: 'Doe', age: 28, gender: 'male' }
{ firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' }
Process finished with exit code 0
```

5. Show user who have last name that contains letter "a" (case-insensitive)

```
function_lodash.js x
76 return o.firstName.charAt(0).toLowerCase() === 'j'
77
78
79 // 5. Show user who have last name that contains letter "a" (case-insensitive)
80 const lastNameFunc = (arr) => {
81   for (let i = 0; i < arr.length; i++) {
82     if (arr[i]['lastName'].includes('a') || arr[i]['lastName'].includes('A')) {
83       return arr[i]
84     }
85   }
86 }
87
88 console.log('Function')
89 console.log(lastNameFunc(users1))
90 console.log(lastNameFunc(users2))
91
92
93 console.log('Lodash')
94 console.log(_.filter(users1, predicate: function (o: {...}) {
95   return o.lastName.toLowerCase().includes('a');
96 })))
97
98 console.log(_.filter(users2, predicate: function (o: {...}) {
99   return o.lastName.toLowerCase().includes('a');
100 })))
101
```

```
Run: function_lodash.js x
/Users/raihanromzi/.nvm/versions/node/v18.6.0/bin/node /Users/raihanromzi/Documents/Development/diBimbi/3. Code - Project - PostTest/2. Project : Assignment/4 - Function Lodash/function_lodash.js
Function
{ firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' }
{ firstName: 'Ane', lastName: 'Hathaway', age: 40, gender: 'female' }
Lodash
[
  { firstName: 'Jim', lastName: 'Carrey', age: 54, gender: 'male' },
  { firstName: 'Ane', lastName: 'Hathaway', age: 40, gender: 'female' }
]
Process finished with exit code 0
```