What is the output ?

```javascript
const numbers = [65 , 44 , 12 , 4];
numbers.forEach(myFunction);
console.log(numbers);

function myFunction(item , index , arr){
    arr[index] = item * 10;
}
```
output=[650, 440, 120, 40]

```javascript
var pokemon = ["squirtle", "charmander", "bulbasaur"];

var pokeLength =
  pokemon.reduce(function(previous, current) {
    return previous + current.length;
  }, 0);

console.log(pokeLength);
```
output=26

```
const numbers = [5, 10, 15];

const reducer = numbers.reduce((accumulator, item)=>{
  return accumulator + item;
});

console.log(reducer);    output=30
```

```
const euros = [29.76, 41.85, 46.5];

const doubled = euros.reduce((total, amount) => {
  total.push(amount * 2);
  return total;
}, []);

console.log(doubled); output=[59.52, 83.7, 93]
```

```
const numbers = [1, 2, 3, 4, 5];output=
console.log(numbers.includes(2));  true
console.log(numbers.includes(99)); false
```

```javascript
const myBoolean = true;
if (myBoolean) {
  const turtles = [    output=['leonardo',
    'leonardo',         'donatello',
    'donatello',          'michaelangelo',
    'michaelangelo',   'raphael',
    'raphael'          'Shredder']
  ];
  turtles = turtles.concat('Shredder');
  console.log(turtles);
}
```

```javascript
const names = ['Batman', 'Catwoman', 'Joker', 'Bane'];
const fromIndex = 1;
const removeCount = 2;
const newNames = [
  ...names.slice(0, fromIndex),
  ...names.slice(fromIndex + removeCount)
];
console.log(newNames);    output=['Batman', 'Bane']
```

```javascript
console.log(typeof(NaN));          output=number
console.log(typeof(String));       function
console.log(typeof(undefind));     undefined
console.log(typeof(null));         object
console.log(typeof([5 , 10 , 20]));  object
```

```javascript
function showCoords(event) {
  document.getElementById("demo").innerHTML =
        `<p> X = ${event.clientX}</p>
        <p> Y = ${event.clientY}</p>`;
}
```

```javascript
let person = {                     output=
  profile: {                       Anonymous
    name: "",                      18
    age: 0                         0
  }                                18
};

console.log(person.profile.name || "Anonymous");
console.log(person.profile.age || 18);
console.log(person.profile.name ?? "Anonymous");
console.log(person.profile.age ?? 18);
```

```
const colors = ['white', 'black', 'gray'];
const clone = [...colors];          output=[ 'white',
console.log(clone);                   'black',
console.log(colors === clone);       'gray' ]
                                     false
```

```
const numbers = [1, 2, 3, 4, 5],
       nums = [];
function isEven(number) {
   return number % 2 === 0;
}
const evenNumber = numbers.find(isEven),
       evenNum   = nums.find(isEven);
console.log(evenNumber);        output= 2
console.log(evenNum);                undefined
```

```
let myFunc = (first, last) => ({ firstName: first, lastName: last }),
    testFunc = (first, last) => { firstName: first, lastName: last };

console.log(myFunc('john' , 'doe'));    output=
console.log(testFunc('john' , 'doe'));  { firstName: 'john', lastName: 'doe' }
                                        { firstName: 'john', lastName: 'doe' }
```

```
function mul(num1){
    return function(num2){
        return function(num3){
            return num1 * num2 * num3;
        }
    }
}
console.log(mul(1)(5)(10)); output=50
```

```
let arr = ['john' , 'jack' , 'john' , 'jack'];

let result = arr.reduce((x , y) => {
    if(!x[y]){
        x[y] = 0;
    }
    x[y]++;
    return x;
} , []);

console.log(result)    output={ john: 2, jack: 2 }
```

Good Luck 😊

By : Eng Hesham Mohamed