JS_Arr

```javascript
1   let arr = ['A', false, 5];
2   console.log(arr.length); // Output: 3
3   console.log(arr[arr.length - 1]); // Output: 5
4   arr.push('last');
5   console.log(arr);
6   arr.pop();
7   console.log(arr);
8   arr.unshift('first');
9   console.log(arr);
10  arr.shift();
11  console.log(arr);
12
13  let emptyArr = Array(10);
14  console.log(emptyArr.length); // Output: 10
15  console.log(emptyArr); // Output: [ <10 empty items> ]
16
17  arr1 = [1, 2, 3];
18  arr2 = [4, 5, 6];
19  let combinedArr = arr1.concat(arr2);
20  console.log(combinedArr); // Output: [1, 2, 3, 4, 5, 6]
21  console.log(arr1+arr2); // Output: 1,2,34,5,6
22
23  let fruits = ['Banana', 'Orange'];
24  console.log(fruits.join(' - ')); // Output: Banana - Orange
25
26  console.log(Array.isArray(fruits)); // Output: true
27
28  delete fruits[0];
29  console.log(fruits); // Output: [ <1 empty item>, 'Orange' ]
30
31  const manyFruits = ["Banana", "Orange", "Apple", "Mango"];
32  // Copy to index 2, all elements from index 0:
33  console.log(manyFruits.copyWithin(2, 0)); // Output: [ 'Banana', 'Orange', 'Banana', 'Orange' ]
34  manyFruits.push("Kiwi");
35  console.log(manyFruits); // Output: [ 'Banana', 'Kiwi', 'Kiwi', 'Mango', 'Kiwi' ]
36  // Copy to index 2, the elements from index 0 to 2:
37  console.log(manyFruits.copyWithin(2, 0, 1)); // Output: [ 'Banana', 'Kiwi', 'Banana', 'Kiwi' ]
38
39  const myArr = [[1,2],[3,4],[5,6]];
40  const newArr = myArr.flat();
41  console.log(newArr); // Output: [ 1, 2, 3, 4, 5, 6 ]
42
43  const months = ["Jan", "Feb", "Mar", "Apr"];
44  const spliced = months.toSpliced(0, 1);
45  console.log(spliced); // Output: [ 'Feb', 'Mar', 'Apr' ]
46
47  const fruits2 = ["Banana", "Orange", "Apple", "Mango"];
48  fruits2.splice(2, 0, "Lemon", "Kiwi");
49  console.log(fruits2); // Output: [ 'Banana', 'Orange', 'Lemon', 'Kiwi', 'Apple', 'Mango' ]
50
51  const names = ['Justin', 'Sarah', 'Christopher']
52  for (let index = 0; index < names.length; index++) {
53    console.log(names[index]);
54  }
55
```

```javascript
names.forEach(myFunction);
function myFunction(name) {
  console.log(name);
}

for (let name of names) {
  console.log(name);
}

const names = ['Taylor', 'Donald', 'Natasha'];

const announments = names.map(menubar => {
  return menubar + 'Joins the contest';
});

console.log(announments);


const keyArray = [
  { key: 1, value: 10 },
  { key: 2, value: 20 },
]

const reformattedArray = keyArray.map(({ key, value }) => ({ [key]: value }));
console.log(reformattedArray);
const notCorrectFormattedArray = keyArray.map(({ key, value }) => ({ key: value }));
console.log(notCorrectFormattedArray);

const numbers = [15, 16, 17, 18, 19];
const sum = numbers.reduce((accumulator, currentValue) => {
  return accumulator + currentValue;
});

console.log(sum); // Output: 85
```