

Print odd numbers in an array (Anonymous function):

```
let oddNumbers = function(number) {  
  for (let i = 0; i < number.length; i++) {  
    if (number[i] % 2 !== 0) {  
      console.log(number[i]);  
    }  
  }  
};
```

Print odd numbers in an array (IIFE function):

```
(function(number) {  
  for (let i = 0; i < number.length; i++) {  
    if (number[i] % 2 !== 0) {  
      console.log(number[i]);  
    }  
  }  
})([1,2,3,4,5,6,7,8]);
```

Print odd numbers in an array (arrow function):

```
const oddNumbers = (number) => {  
  for (let i = 0; i < number.length; i++) {  
    if (number[i] % 2 !== 0) {  
      console.log(number[i]);  
    }  
  }  
};
```

```
const number = [1, 2, 3, 4, 5, 6, 7, 8];  
oddNumbers(number);
```

Convert all the strings to title caps in a string array(anonymous function)

```
const strings = ["hello world", "hello computer", "good morning"];
let final = []
```

```
strings.forEach(function(str){
  let Eachstr = ""
  let SplitTheWords = str.split(" ")
  for (let i=0; i<SplitTheWords.length; i++){
    Eachstr += SplitTheWords[i].charAt(0).toUpperCase() +
SplitTheWords[i].slice(1).toLowerCase() + ' '
  }
  console.log(Eachstr)
  final.push(Eachstr.trim());
})
```

```
console.log(final)
```

Convert all the strings to title caps in a string array(IIFE function)

```
const strings = ["hello world", "hello computer", "good morning"];
let final = []
```

```
(function (){
  strings.forEach(function(str){
    let Eachstr = ""
    let SplitTheWords = str.split(" ")
    for (let i=0; i<SplitTheWords.length; i++){
      Eachstr += SplitTheWords[i].charAt(0).toUpperCase() +
SplitTheWords[i].slice(1).toLowerCase() + ' '
    }
    final.push(Eachstr.trim());
  })

})();
console.log(final)
```

Sum of all numbers in an array (anonymous function):

```
numbers = [1,2,3,4,5,6,7,8,9,10]
```

```
const sum = function(arr) {  
  let total = 0;  
  arr.forEach(function(num) {  
    total += num;  
  });  
  return total;  
};
```

```
console.log(sum(numbers));
```

Sum of all numbers in an array (IIFE function):

```
const numbers = [1, 2, 3, 4, 5];
```

```
const total = (function(arr) {  
  let sum = 0;  
  for (let i = 0; i < arr.length; i++) {  
    sum += arr[i];  
  }  
  return sum;  
})(numbers);
```

```
console.log(total);
```

Sum of all numbers in an array (arrow function):

```
const numbers = [1, 2, 3, 4, 5];

const total = (() => {
  let sum = 0;
  for (let i = 0; i < numbers.length; i++) {
    sum += numbers[i];
  }
  return sum;
})();

console.log(total);
```

Return all the prime numbers in an array (anonymous function):

```
const numbers = [2, 3, 4, 5, 6, 7, 8, 9, 10];

const primeNumbers = function(arr) {
  const isPrime = function(num) {
    if (num <= 1) {
      return false;
    }
    for (let i = 2; i <= Math.sqrt(num); i++) {
      if (num % i === 0) {
        return false;
      }
    }
    return true;
  };

  const result = [];
  for (let i = 0; i < arr.length; i++) {
    if (isPrime(arr[i])) {
      result.push(arr[i]);
    }
  }
  return result;
};

console.log(primeNumbers(numbers));
```

Return all the prime numbers in an array (IIFE function):

```
const numbers = [2, 3, 4, 5, 6, 7, 8, 9, 10];

const primeNumbers = (() => {
```

```

const isPrime = (num) => {
  if (num <= 1) {
    return false;
  }
  for (let i = 2; i <= Math.sqrt(num); i++) {
    if (num % i === 0) {
      return false;
    }
  }
  return true;
};

return (arr) => {
  const result = [];
  for (let i = 0; i < arr.length; i++) {
    if (isPrime(arr[i])) {
      result.push(arr[i]);
    }
  }
  return result;
};
})();

console.log(primeNumbers(numbers));

```

Return all the prime numbers in an array(arrow function):
const numbers = [2, 3, 4, 5, 6, 7, 8, 9, 10];

```

const primeNumbers = (() => {
  const isPrime = (num) => {
    if (num <= 1) {
      return false;
    }
    for (let i = 2; i <= Math.sqrt(num); i++) {
      if (num % i === 0) {
        return false;
      }
    }
    return true;
  };

  return (arr) => {
    const result = [];
    arr.forEach((num) => {
      if (isPrime(num)) {
        result.push(num);
      }
    });
    return result;
  };
})();

```

```

    };
  })();

  console.log(primeNumbers(numbers));

```

Return all the palindromes in an array (Anonymous function):

```

let palindromes = function(arr) {

  let result = [];

  arr.forEach(function(str) {

    if (str === str.split('').reverse().join('')) {

      result.push(str);

    }

  });

  return result;

};

```

Return all the palindromes in an array (IIFE function):
 Array = [civic, Noon]

```

let palindromes = (function(arr) {
  let result = [];
  arr.forEach(function(str) {
    if (str === str.split('').reverse().join('')) {
      result.push(str);
    }
  });
  return result;
})(array);

```

Return all the palindromes in an array (arrow function):

```
let palindromes = (arr) => {  
  let result = [];  
  arr.forEach((str) => {  
    if (str === str.split('').reverse().join('')) {  
      result.push(str);  
    }  
  });  
  return result;  
};
```

Remove duplicates from an array (anonymous function)

```
let uniqueArray = function(arr) {  
  
  let result = [];  
  
  arr.forEach(function(item) {  
  
    if (result.indexOf(item) === -1) {  
  
      result.push(item);  
  
    }  
  
  });  
  
  return result;  
  
}
```

Remove duplicates from an array (IIFE function)

```
let uniqueArray = (function(arr) {  
  
  let result = [];  
  
  arr.forEach(function(item) {  
  
    if (result.indexOf(item) === -1) {  
  
      result.push(item);  
  
    }  
  
  });  
  
  return result;  
  
})(array);
```

Rotate an array by k times(Anonymous function)

```
let array = [1, 2, 3, 4, 5];
```

```
let k = 3;
```

```
let rotateArray = function(arr, k) {
```

```
  for (let i = 0; i < k; i++) {
```

```
    let temp = arr.pop();
```

```
    arr.unshift(temp);
```

```
  }
```

```
  return arr;
```

```
};
```

Rotate an array by k times(IIFE function)

```
let array = [1, 2, 3, 4, 5];
```

```
let k = 3;
```

```
let rotatedArray = (function(arr, k) {
```

```
  for (let i = 0; i < k; i++) {
```

```
    let temp = arr.pop();
```

```
    arr.unshift(temp);
```

```
  }
```

```
  return arr;
```

```
})(array.slice(), k);
```