JavaScript: Task 3

Print odd Numbers in an array?

```
var odd=function (arr) {
  odd=";
  for(let i=0;i<arr.length;i++)
  if(arr[i]%2!==0)
    odd=odd+arr[i]+" ";
  console.log(odd)
arr=[1,2,3];
odd(arr);
IIFE:
(function (arr) {
  odd=";
  for(let i=0;i<arr.length;i++)
  if(arr[i]%2!==0)
    odd=odd+arr[i]+" ";
  console.log(odd)
})([1,2,3])
```

Convert all the strings to title caps in string array

```
Anonymous function:
var capitalize=function (arr) {
  for(let i=0;i<arr.length;i++)
     let a=arr[i];
     a=a.split(");
     b=a[0].toUpperCase();
     a=b+','+a.slice(1);
     a=a.split(',');
     let c=";
     for(let i=0;i<a.length;i++)
       c=c+a[i];
     console.log(c)
arr=['tej','raj'];
capitalize(arr);
IIFE:
(function (arr) {
  for(let i=0;i<arr.length;i++)
  {
     let a=arr[i];
     a=a.split(");
     b=a[0].toUpperCase();
     a=b+','+a.slice(1);
     a=a.split(',');
     let c=";
     for(let i=0;i<a.length;i++)
        c=c+a[i];
     console.log(c)
```

})(['tej','raj'])

Sum of all the numbers in the array:

Anonymous function:

```
var sum=function (arr) {
   var sum=0;
   for(let i=0;i<arr.length;i++)
   {
      sum=sum+arr[i];
   }
   console.log(sum)
}
arr=[1,2,3];
sum(arr);

IIFE:

(function (arr) {
   var sum=0;
   for(let i=0;i<arr.length;i++)
   {
      sum=sum+arr[i];
   }
}</pre>
```

console.log(sum)

})([1,2,3])

Return all the prime numbers in an array

```
var prime = function (input) {
  var num = [];
  for (var i in input) {
     var count = 0;
     for (\text{var } j = 2; j \le \text{input}[i]; j++) {
       if (input[i] \% j === 0) {
          count = count + 1;
        }
     if (count === 1) {
        num.push(input[i]);
     }
 return console.log(num)
prime([1,2,3,4,5,6,7,8,9,10]);
IIFE:
(function (input) {
  var num = [];
  for (var i in input) {
     var count = 0;
     for (var j = 2; j \le input[i]; j++) {
       if (input[i] % j === 0) {
          count = count + 1;
        }
     if (count === 1) {
        num.push(input[i]);
     }
  return console.log(num)
})([1,2,3,4,5,6,7,8,9,10])
```

Return all the palindromes in an array

```
var palindrome=function (arr) {
  for(let i=0;i<arr.length;i++)</pre>
  {
     let a=arr[i];
     let c=";
     let d=";
     for(let i=0;i<a.length;i++)</pre>
        c=c+a[i];
     for(let i=c.length-1;i>=0;i--)
     {
        d=d+c[i];
     if(c===d)
     {
           console.log(c)
     }
  }
arr=['tej','rar'];
palindrome(arr);
```

IIFE:

```
(function (arr) {
    for(let i=0;i<arr.length;i++)
    {
        let a=arr[i];
        let c=";
        let d=";
        for(let i=0;i<a.length;i++)
        {
            c=c+a[i];
        }
        for(let i=c.length-1;i>=0;i--)
        {
            d=d+c[i];
        }
        if(c===d)
        {
            console.log(c)
        }
    }
}(['tej','rar'])
```

Return median of two sorted arrays of same size

```
var median=function (arr1,arr2) {
  var arr;
  arr=arr1+","+arr2;
  arr=arr.split(",")
  arr=arr.sort();
  len=arr.length/2;
  med=(+arr[len-1]++arr[len])/2;
  console.log(med);
arr1=[1,2,3,6];
arr2=[4,5,8,7];
median(arr1,arr2);
IIFE:
(function (arr1,arr2) {
  var arr;
  arr=arr1+","+arr2;
  arr=arr.split(",")
  arr=arr.sort();
  len=arr.length/2;
  med=(+arr[len-1]+ +arr[len])/2;
  console.log(med);
})([1,2,3,6],[4,5,8,7])
```

Remove duplicates from an array:

```
var arr = [1,2,8,3,6,1,2,6];
let uniqueArr = [];
var duplicates = function(){
  for(let i of arr) {
     if(uniqueArr.indexOf(i) === -1) {
       uniqueArr.push(i);
     }
  console.log(uniqueArr);
duplicates(arr);
IIFE:
(function(){
  let uniqueArr = [];
  for(let i of arr) {
     if(uniqueArr.indexOf(i) === -1) {
       uniqueArr.push(i);
     }
  }
  console.log(uniqueArr);
})([1,2,8,3,6,1,2,6])
```

Rotate an array by k times and return the rotated array

```
var rotate = function(num, k) {
    for (let i = 0; i < k; i++) {
        num.unshift(num.pop());
    }
    return num;
};
console.log(rotate([1,2,3,4,5], 2));

IIFE:

(function(num, k) {
    for (let i = 0; i < k; i++) {
        num.unshift(num.pop());
    }
    return num;
})([1,2,3,4,5], 2)</pre>
```