

1. Print Odd numbers in an array.

```
var oddNums=function(arr){  
  for ( var i=0;i<arr.length;i++){  
    if (arr[i]%2!==0){  
      console.log(arr[i]);  
    }  
  }  
}  
oddNums([2,54,6,9,65,4,8,3,34,53])
```

or

```
var oddNums=function(arr){  
  arr.forEach(function(i){  
    if (i%2!==0){  
      console.log(i);  
    }  
  })  
}  
oddNums([2,54,6,9,65,4,8,3,34,53])
```

2. Convert all the strings to title caps in a string array.

```
var str=["abc","dEf","gHiJ","klMnO","p","q","rStUvw","xyZ"];
var cap=function(arr){
    for(var i=0;i<arr.length;i++){
        // first convert all letters to lowercase:
        arr[i]=arr[i].toLowerCase();
        // take the first letter and uppercase it,then take the rest
        of the letters using slice():
        // then attach them together and assign it to the real one:
        arr[i]=arr[i].charAt(0).toUpperCase() + arr[i].slice(1);
    }
    console.log(arr);
}
cap(str)
```

or

```
var str=["abc wasd","dEf","gHiJ
zxc","klMnO","p","q","rStUvw","xyZ"];
// here there are spaces at some indexes
var cap=function(arr){
```

```

for(var i=0;i<arr.length;i++){
    // for strings with spaces between them
    if(arr[i].split(" ").length>1){
        // split the words if spaces are present
        arr[i]=arr[i].split(" ")
        // an empty string to append the splitted words after
        title casing
        // using this method because .join() and toString didnt
        work as expected
        let temp="";
        for(var j=0;j<arr[i].length;j++){
            arr[i][j]=arr[i][j].toLowerCase();

arr[i][j]=arr[i][j].charAt(0).toUpperCase()+arr[i][j].slice(1);
            temp=temp+arr[i][j]+" ";
        }
        // assigning the value of temp string to the actual index
        value
        // to prevent it from making a seperate array
        arr[i]=temp;
    }else {

```

```
// for cases without any spaces present
arr[i]=arr[i].toLowerCase();
arr[i]=arr[i].charAt(0).toUpperCase() + arr[i].slice(1);
    }
}
console.log(arr);
}
cap(str)
```

3. Sum of all numbers in an Array.

```
var total=function(arr){
    sum=0;
    arr.forEach(function(i){
        sum= sum + i;
    })
    console.log(sum)
}
total([3,3,3,1,10])
```

or

```
var total=function(arr){  
  var sum=arr.reduce(function(a,b){  
    return a+b;  
  },0);  
  console.log(sum);  
}  
total([3,3,3,1,10])
```

or

```
var total=function(arr){  
  sum=0;  
  for(var i=0;i<arr.length;i++){  
    sum+=arr[i];  
  }  
  console.log(sum)  
}  
total([3,3,3,1,10])
```

4. Return all the prime numbers in an array.

```
var prime=function(arr){  
  
    for (var i=0;i<arr.length;i++){  
        let isprime=true;  
        if (arr[i]==0 || arr[i]==1){  
            isprime=false;  
        }  
        else {  
            for (var j=2;j<arr[i];j++){  
                if (arr[i]%j===0){  
                    isprime=false;  
                    break  
                }  
            }  
        }  
        if(isprime){  
            console.log(arr[i]);  
        }  
    }  
}
```

```

    }
  }
}
prime([0,1,71,13,23,2,6,4,89,7,5,9])

```

5. Return all palindromes in an array.

```

var palindrome=function(arr){
  for (var i=0;i<arr.length;i++){
    let str=arr[i].split("");
    let revstr=arr[i].split("").reverse();
    if(JSON.stringify(revstr)===JSON.stringify(str)){
      console.log(arr[i]);
    }
  }
}
palindrome(["abba","abccba","sfdgsag","fsdafgsa","a","abab"])

```

6. Return the median of two sorted arrays of same size.

```
var median=function(x,y){  
  if(x.length===y.length){  
    x=x.sort((a,b)=>a-b);  
    y=y.sort((a,b)=>a-b);  
    let arr=x.concat(y);  
    let median=arr[(arr.length/2)-1]+", "+arr[((arr.length/2))];  
    console.log(median)  
  }else{  
    console.log("invalid input");  
  }  
}  
  
median([7,5,6,4],[9,4,5,2]);
```

// for string array

```
var median=function(x,y){  
  if(x.length===y.length){  
    x=x.sort();  
    y=y.sort();  
    let arr=x.concat(y);  
    let median=arr[(arr.length/2)-1]+", "+arr[((arr.length/2))];
```



```
        console.log(median)
    }else{
        console.log("invalid input");
    }
}

median(["vikas","abhinav","abhishek"],["vignesh","malini","vija
y"]);
```

7. Remove duplicates from an Array.

```
var names =
["Mickey","Snoopy","Pluto","Mini","Tom","Mickey","Jerry","Do
nald","Pluto","Mini"];

var duplicate=function(arr){
    let unique = [...new Set(arr)];
    console.log(unique);
}

duplicate(names)
```

or

```

var names =
["Mickey","Snoopy","Pluto","Mini","Tom","Mickey","Jerry","Do
nald","Pluto","Mini"];

var duplicate=function(arr){
  for(var i=0;i<arr.length;i++){
    for(var j=i+1;j<arr.length;j++){
      if(arr[i]===arr[j]){
        let x=arr.lastIndexOf(arr[j]);
        // (use lastIndexOf(),otherwise it wil return index of
first same Element)
        arr.splice(x,1);
      }
    }
  }
  console.log(arr)
}

duplicate(names)

```

8. Rotate the array by k times and return the rotated array.

```
var array=[1,2,3,4,5,6,7,8,9];
```

```
var rotate=function(arr,k){
```

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

```
        arr.unshift(arr.pop());
```

```
    }
```

```
    console.log(arr);
```

```
}
```

```
rotate(array,3);
```