

1).Print odd numbers in an array.

Anonymous function

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

var result=function(arr){

    for(var

        i=0;i<arr.length;i++){

            if(arr[i]%2!=0)

                console.log(arr[i]);

        }

}
```

IIFE function

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

var result=function(arr){

    for(var

        i=0;i<arr.length;i++){

            if(arr[i]%2!=0)

                console.log(arr[i]);

        }

}

result(arr);
```

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

Anonymous function

```
var arr=['hello zeN','Hii','gUvi'];

arr=arr.map(function(e){

    return e.toLowerCase();

});
```

```
});
```

```
var
```

```
result=function(a
```

```
rr){ for(var i in
```

```
arr){
```

```
arr[i]=arr[i].charAt(0).toUpperCase()+arr[i].slice(1);
```

```
console.log(arr[i]);
```

```
}
```

```
}
```

```
result(arr);
```

IIFE function

```
var arr=['hello zeN','Hii','gUvi'];
```

```
arr=arr.map(function(e){
```

```
return e.toLowerCase();
```

```
});
```

```
(function(arr){
```

```
for(var i in
```

```
arr){
```

```
arr[i]=arr[i].charAt(0).toUpperCase()+arr[i].slice(1);
```

```
console.log(arr[i]);
```

```
}
```

```
})(arr);
```

3).Sum of all numbers in an array.

Anonymous function

```
var arr=[2,3,4,5,6,7,8,9,10,1];

var sum=0;

var
    result=function
    (a){ for(var i
        in a){

            sum+=a[i];

        }

    console.log(sum);

}

result(arr);
```

IIFE function

```
var arr=[2,3,4,5,6,7,8,9,10,1];

var sum=0;
(function(a){

    for(var i in
        a){
            sum+=a[i];
        }

    console.log(sum);

})(arr);
```

4) .Return all the prime numbers in an array.

Anonymous function

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

var
  result=function
  (a){ for(var i
    in a){
      var c=0;

      for(var
        j=2;j<=a[i];j++){
          if(a[i]%j==0)

            c++;
        }

      if(c==1)
        console.log(a[i]);
    }
  }

result(arr);
```

IIFE function

```
(function(a){
  for(var i in
    a){ var
      c=0;

      for(var j=2;j<=a[i];j++){
```

```

        if(a[i]%j==0)
            c++;
    }

    if(c==1)
        console.log(a[i]);

}

}) ([2,3,4,5,6,7,8,9,11]);

```

5).Return all the palindromes in an array.

Anonymous function

```

var arr=['1221','1213','aba','drfg'];
var result=function(a){

    for(var i in a){

        var n=a[i].length-1;
        var c=0;

        for(var
            j=0;j<=(a[i].length-1)/2;j++){
            if(a[i][j]!=a[i][n--])

                c=1;
        }

        if(c==0)
            console.log(a[i]);

    }

}

result(arr);

```

IIFE function

```
var arr=['1221','1213','aba','drfg'];

(function(a){
    for(var i in a){
        var n=a[i].length-1;
        var c=0;

        for(var
            j=0;j<=(a[i].length-1)/2;j++){
            if(a[i][j]!=a[i][n--])

            c=1;
        }

        if(c==0)
            console.log(a[i]);
    }

})(arr);
```

5) .Return median of two sorted arrays of the same size. Anonymous function

```
var arr=[2,3,4,5,6,7,8];

var arr1=[3,4,5,6,7,8,9];

var result=function(arr,arr1){
    var newarray=arr.concat(arr1);

    newarray=newarray.sort((a,b)=>a-b);
    var median;

    //since length will be even
    median=(newarray[(newarray.length)/2]+newarray[(newarray.length/2)-1])/2
    ; console.log(median);
```

```
}  
result(arr, arr1);
```

IIFE function

```
var arr=[2,3,4,5,6,7,8];  
var arr1=[3,4,5,6,7,8,9];  
  
(function(arr, arr1){  
  
    var newarray=arr.concat(arr1);  
    newarray=newarray.sort((a,b)=>a-b);  
    var median;  
  
    //since length will be even  
    median=(newarray[(newarray.length)/2]+newarray[(newarray.length/2)-1])/2  
    ; console.log(median);  
  
})(arr, arr1);
```

7).Remove duplicates from an array.

Anonymous function

```
var a=[2,3,3,4,5,5,6,6,7,7,7,8,9,9,9];  
  
var  
    result=function(a  
    ){  
        a=a.sort((a,b)=>a  
        -b); var res=[];  
  
        for(var  
            i=0;i<a.length-1;i++){  
            if(a[i]!==a[i+1])
```

```

        res.push(a[i]);
    }

    res.push(a[a.length-1]);
    for(var i in res)
        console.log(res[i]);

}

result(a);

```

IIFE function

```

var a=[2,3,3,4,5,5,6,6,7,7,7,7,8,9,9];

(function(a){

    a=a.sort((a,b)=>a-b);
    var res=[];

    for(var i=0;i<a.length-1;i++){

        if(a[i]!==a[i+1])

            res.push(a[i]);

    }

    res.push(a[a.length-1]);
    for(var i in res)
        console.log(res[i]);

})([2,3,4,5,6,5,6,5,4,5,3,4,5,6,7,7,8,1]);

```

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

Anonymous function

```

var a=[2,3,4,5,6,7,8,9];

```



```

var k=5;

var
    result=function(a
    ,k){ var t=[];

    for(var i=0;i<a.length;i++)

    t[(i+k)%a.length]=a[i];
    for(var i in t)
    console.log(t[i]);

}

result(a,k);

```

IIFE function

```

var a=[2,3,4,5,6,7,8,9];

var k=5;
(function(a,k){

    var t=[];

    for(var i=0;i<a.length;i++)
    t[(i+k)%a.length]=a[i];
    for(var i in t)
    console.log(t[i]);

})(a,k);

```