

1.Print odd numbers in an array

Anonymous:

```
var odd = function (a) {  
  var arr = [];  
  for(var i = 0; i < a; i++)  
  {  
    if(i%2 !== 0)  
    {  
      arr.push(i);  
    }  
  }  
  console.log(arr);  
}  
odd(23);
```

IIFE:

```
(function (a) {  
  var arr = [];  
  for(var i = 0; i < a; i++)  
  {  
    if(i%2 !== 0)  
    {  
      arr.push(i);  
    }  
  }  
  console.log(arr);  
})(20)
```

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

anonymous

```
var caps = function(str) {  
  str = str.toLowerCase().split(" ");  
  for(var i = 0; i < str.length; i++)  
  {  
    str[i] = str[i][0].toUpperCase() + str[i].slice(1);  
  }  
  console.log(str);  
}
```

```
}  
caps("hello world");
```

IIFE:

```
var caps = (function(str) {  
    str = str.toLowerCase().split(" ");  
    for(var i = 0; i < str.length; i++)  
    {  
        str[i] = str[i][0].toUpperCase() + str[i].slice(1);  
    }  
    console.log(str);  
})  
("hello world");
```

3. Sum of numbers in an array

Anonymous:

```
var sum = 0;  
var arr = [10,20,30,50,60,90];  
var summ = function () {  
    for(var i = 0; i < arr.length; i++)  
    {  
        sum = sum + arr[i];  
    }  
    console.log(sum);  
}  
summ();
```

IIFE

```
var sum = 0;  
var arr = [10,20,30,50,60,90];  
var summ = (function () {  
    for(var i = 0; i < arr.length; i++)  
    {  
        sum = sum + arr[i];  
    }  
    console.log(sum);  
}) ();
```

4.Return all the prime numbers in an array

Anonymous:

```
var prime = function(arr) {  
  var num = [];  
  for(var i in arr)  
  {  
    var count = 0;  
    for(var j = 1; j<arr[i]; j++)  
    {  
      if(arr[i]%j === 0)  
      {  
        count++;  
      }  
    }  
    if(count === 1)  
    {  
      num.push(arr[i]);  
    }  
  }  
  console.log(num);  
}  
prime([1,2,3,4,5,6,7,8,9]);
```

IIFE:

```
(function(arr) {  
  var num = [];  
  for(var i in arr)  
  {  
    var count = 0;  
    for(var j = 1; j<=arr[i]; j++)  
    {  
      if(arr[i]%j === 0)  
      {  
        count++;  
      }  
    }  
    if(count === 2)  
    {  
      num.push(arr[i]);  
    }  
  }  
})
```

```

    }
    console.log(num);
  })
  ([1,2,3,4,5,6,7,8,9]);

```

5. Palindrome

Anonymous:

```

var palindrome = function (arr) {
  var str = "";
  var rev = "";
  for(var i = 0; i < arr.length; i++)
  {
    rev = arr[i].split("").reverse().join("");
    if( rev === arr[i])
    {
      str = str + " " + arr[i];
      console.log(arr[i]);
    }
  }
  return str;
}
palindrome(["hello","121", "pop"]);

```

IIFE:

```

var palindrome = (function (arr) {
  var str = "";
  var rev = "";
  for(var i = 0; i < arr.length; i++)
  {
    rev = arr[i].split("").reverse().join("");
    if( rev === arr[i])
    {
      str = str + " " + arr[i];
      console.log(arr[i]);
    }
  }
  return str;
})
(["hello","121", "pop"]);

```

6. Duplicate

Anonymous:

```
var arr = [1,2,3,40,5,5,60,7,8];
var duplicate = function (ele){
  let uniq = [];
  for(var i of ele)
  {
    if(uniq.indexOf(i) === -1) {
      uniq.push(i);
    }
  }
  console.log(uniq);
}
duplicate(arr);
```

IIFE:

```
var arr = [1,2,3,40,5,5,60,7,8];
var duplicate = (function (ele){
  let uniq = [];
  for(var i of ele)
  {
    if(uniq.indexOf(i) === -1) {
      uniq.push(i);
    }
  }
  console.log(uniq);
})(arr);
```

7. Median of 2 sorted arrays

Anonymous:

```
var arr1 = [1,2,3,4,5,5,6];
var arr2 = [20,40,50,49,2,1,4];
var median = function() {

  if(arr1.length == arr2.length)
  {
    let arr = arr1.concat(arr2);
    for(var i = 0 ; i < arr.length; i++)
    {
      for(var j = 1; j < arr.length; j++)
```

```

        {
            if(arr[j]>arr[j+1])
            {
                var temp = arr[j];
                arr[j] = arr[j+1];
                arr[j+1] = temp;
            }
        }
    }
    console.log(arr);
    if(arr.length%2 !=0)
    {
        median = arr[(arr.length-1)/2];
        console.log(median);
    }
    else
    {
        num1 = arr[(arr.length)/2];
        num2 = arr[((arr.length)/2) -1];
        median = ((num1 + num2)/2);
        console.log(median);
    }
}
median();

```

IIFE:

```

var arr1 = [1,2,3,4,5,5,6];
var arr2 = [20,40,50,49,2,1,4];
var median = (function() {

    if(arr1.length == arr2.length)
    {
        let arr = arr1.concat(arr2);
        for(var i = 0 ; i < arr.length; i++)
        {
            for(var j = 1; j < arr.length; j++)
            {
                if(arr[j]>arr[j+1])
                {
                    var temp = arr[j];
                    arr[j] = arr[j+1];
                    arr[j+1] = temp;
                }
            }
        }
    }
}
)();

```

```

    }
  }
}
console.log(arr);
if(arr.length%2 !=0)
{
  median = arr[(arr.length-1)/2];
  console.log(median);
}
else
{
  num1 = arr[(arr.length)/2];
  num2 = arr[((arr.length)/2) -1];
  median = ((num1 + num2)/2);
  console.log(median);
}
}
})
();

```

8. Rotate k times.

Anonymous:

```

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

```

IIFE:

```

var rotate = (function(num,k) {
  let i = 0;
  while(i<k)
  {
    num.unshift(num.pop())
    i++;
  }
}

```

```
    console.log(num);  
  }) ([1,2,3,4,5],2);
```