Anonymous function and IIFE

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Print odd numbers in an array
Anonymous function
var array = [2,3,4,5,6,7,8,9];
var odd = function(arr){
  for(let i=0; i<arr.length; i++)
  {
     if(arr[i]\%2 !== 0)
        console.log(arr[i]);
odd(array);
IIFE
array = [2,3,4,5,6,7,8];
(function(arr){
  for(let i=0; i<arr.length; i++)</pre>
     if(arr[i]\%2 !== 0)
        console.log(arr[i]);
     }}})(array)
Convert all the strings to title caps in a string array
Anonymous function
var str = "My name is bean bro";
var str1 = function(str) {
  var sentence = str.toLowerCase().split(" ");
  for(var i=0; i<sentence.length; i++)
  { sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1); }
  sentence.join(" ");
  console.log(sentence);
}
str1(str);
IIFE
var str = "My name is bean bro";
(function(str) {
  var sentence = str.toLowerCase().split(" ");
  for(var i=0; i<sentence.length; i++)</pre>
  { sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1); }
  sentence.join(" ");
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console.log(sentence);
})(str)
Sum of all numbers in an array
Anonymous function
var arr = [1,2,3,4,5,6,7,8,9];
var sum=0;
var sum1 = function(arr)
{ for(let i=0; i<arr.length; i++)
  { sum += arr[i]; }
  console.log(sum);
sum1(arr);
IIFE
var arr = [1,2,3,4,5,6,7,8,9];
var sum=0;
(function(arr)
  for(let i=0; i<arr.length; i++)</pre>
     sum += arr[i];
  console.log(sum);
})(arr);
Return all the prime numbers in an array
Anonymous function
var arr = [3,4,5,6,7,8,9,15,17];
var prime = function(arr){
  let s=[], count=0;
  for(i=0; i<arr.length; i++)</pre>
  {
     for(j=1; j<arr[i]; j++)
       if(arr[i]%j===0)
          count++;
       if(count ==1)
          s.push(arr[i]);
          count = 0;
  console.log(s);
```

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prime(arr);
IIFE
var arr = [3,4,5,6,7,8,9,15,17];
(function(arr){
  let s=[], count=0;
  for(i=0; i<arr.length; i++)</pre>
  {
     for(j=1; j<arr[i]; j++)
        if(arr[i]\%j===0)
          count++;
        if(count ==1)
           s.push(arr[i]);
           count = 0;
  }
  console.log(s);
})(arr);
Return all the palindromes in an array
Anonymous function
var arr = ["bean","bro","mam"];
var palindrome = function(arr){
  var str = "";
  var rev = "";
  for(var i in arr)
     rev = arr[i].split("").reverse().join("");
     if(rev===arr[i])
        str = str + " " +arr[i];
  console.log(str);
palindrome(arr);
IIFE
var arr = ["bean","bro","mam"];
(function(arr){
  var str = "";
  var rev = "";
```

```
for(var i in arr)
  {
     rev = arr[i].split("").reverse().join("");
     if(rev===arr[i])
       str = str + " " +arr[i];
     }
  }
  console.log(str);
})(arr);
Return median of two sorted arrays of same size
Anonymous function
var arr1 = [1,2,3,4];
var arr2 = [8,5,6,7];
var concatarr = arr1.concat(arr2);
var median = function(concatarr){
  var mid = Math.floor(concatarr.length/2);
  if(concatarr.length %2 === 0)
     return (concatarr[mid] + concatarr[mid-1])/2;
  else
  return concatarr[mid];
  }
}
console.log(median(concatarr));
IIFE
var arr1 = [1,2,3,4];
var arr2 = [8,5,6,7];
var concatarr = arr1.concat(arr2);
(function(concatarr){
  var mid = Math.floor(concatarr.length/2);
  if(concatarr.length %2 === 0)
  {
     console.log((concatarr[mid] + concatarr[mid-1])/2);
  }
  else
  console.log(concatarr[mid]);
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})(concatarr);
Remove duplicates from an array
Anonymous function
var arr = [2,3,4,5,6,2,3,4,1];
var uniqueid = function(arr){
var uniquechar = [new Set(arr)];
console.log(uniquechar);
}
uniqueid(arr);
IIFE
var arr = [2,3,4,5,6,2,3,4,1];
(function(arr){
var uniquechar = [new Set(arr)];
console.log(uniquechar);
})(arr);
Rotate an array by k times and return the rotated array
Anonymous function
var arr = [2,3,4,5,6,2,3,4,1];
var rotate = function(arr){
arr.unshift(arr.pop());
console.log(arr);
}
rotate(arr);
IIFE
var arr = [2,3,4,5,6,2,3,4,1];
(function(arr){
arr.unshift(arr.pop());
```

console.log(arr);

})(arr);