1. Do the below programs in anonymous function & IIFE
   1. Print odd numbers in an array
   2. Convert all the strings to title caps in a string array
   3. Sum of all numbers in an array
   4. Return all the prime numbers in an array
   5. Return all the palindromes in an array
   6. Return median of two sorted arrays of the same size.
   7. Remove duplicates from an array
   8. Rotate an array by k times

Solutions:

1. Print odd numbers in an array using Anonymous Function

var odd=function(a){

var res="";

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

{

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

{

res+=a[i]+" ";

}

}

res+=a[a.length-1];

return res;

}

console.log(odd([1,2,3,4,5]))

Print odd numbers in an array using IIFE

(function(a){

var res="";

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

{

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

{

res+=a[i]+" "

}

}

res+=a[a.length-1]

console.log(res);

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

1. Convert all the strings to title caps in a string array using Anonymous Function

var str=function (string) {

var sent = string.toLowerCase().split(" ");

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

sent[i] = sent[i][0].toUpperCase() + sent[i].slice(1);

}

sent.join(" ");

var res="";

for(let i=0;i<sent.length-1;i++)

{

res+=sent[i]+" "

}

res+=sent[sent.length-1]

return res;

}

console.log(str("raaga shobitha"));

Convert all the strings to title caps in a string array using IIFE

(function (string) {

var sent = string.toLowerCase().split(" ");

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

sent[i] = sent[i][0].toUpperCase() + sent[i].slice(1);

}

sent.join(" ");

var res="";

for(let i=0;i<sent.length-1;i++)

{

res+=sent[i]+" "

}

res+=sent[sent.length-1]

console.log(res);

}) ("raaga shobitha");

1. Sum of all numbers in an array using Anonymous Function

var sum =function(a) {

var res=0;

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

{

res+=a[i]

}

return res;

}

console.log(sum([1,2,3,4,5,6]))

Sum of all numbers in an array using IIFE

(function(a){

var res=0;

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

{

res+=a[i]

}

console.log(res);

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

1. Return all the prime numbers in an array using Anonymous Function

var sum =function(a){

var res="";

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

{

var count=0;

for(j=1;j<=a[i];j++)

{

if(a[i]%j===0)

{

count++

}

}

if(count==2)

{

res+=a[i]+" "

}

}

return res;

}

console.log(sum([1,2,3,4,5,6,7,8,9,11]))

Return all the prime numbers in an array using IIFE

(function(a){

var res="";

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

{

var count=0;

for(j=1;j<=a[i];j++)

{

if(a[i]%j===0)

{

count++

}

}

if(count==2)

{

res+=a[i]+" "

}

}

console.log(res);

})([1,2,3,4,5,6,7,8,9,11]);

1. Return all the palindromes in an array using Anonymous Function

var palind=function(a){

var res="";

var ans="";

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

{

res+=a[i];

var count=0

for(j=0;j<res.length;j++)

{

if(res[j]===res[((res.length-1)-j)])

{

count++

}

}

if(count===res.length)

{

ans+=res+" "

}

res="";

}

return ans;

}

console.log(palind(["shobi","madam","8008"]))

Return all the palindromes in an array using IIFE

(function(a){

var res="";

var ans="";

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

{

res+=a[i];

var count=0

for(j=0;j<res.length;j++)

{

if(res[j]===res[((res.length-1)-j)])

{

count++

}

}

if(count===res.length)

{

ans+=res+" "

}

res="";

}

console.log(ans);

}) (["shobi","madam","8008"]);

1. Return median of two sorted arrays of the same size using Anonymous Function

var arr=function(a,b){

var c=[];

var n=a.length;

var p=b.length;

var i=0;

var j=0;

var med=0;

while(i<n && j<p)

{

if(a[i]<b[j])

{

c.push(a[i])

i++

}

else

{

c.push(b[j])

j++

}

}

if(i<n)

{

for(let k=i;k<n;k++)

{

c.push(a[k])

}

}

else if(j<p)

{

for(let m=j;m<p;m++)

{

c.push(b[m])

}

}

if(c.length%2===0)

{

med=(c[(c.length/2)-1]+c[c.length/2])/2

}

else

{

med=c[Math.floor(c.length/2)]

}

return med;

}

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

Return median of two sorted arrays of the same size using IIFE

(function(a,b){

var c=[];

var n=a.length;

var p=b.length;

var i=0;

var j=0;

var med=0;

while(i<n && j<p)

{

if(a[i]<b[j])

{

c.push(a[i])

i++

}

else

{

c.push(b[j])

j++

}

}

if(i<n)

{

for(let k=i;k<n;k++)

{

c.push(a[k])

}

}

else if(j<p)

{

for(let m=j;m<p;m++)

{

c.push(b[m])

}

}

if(c.length%2===0)

{

med=(c[(c.length/2)-1]+c[c.length/2])/2

}

else

{

med=c[Math.floor(c.length/2)]

}

console.log(med);

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

1. Remove duplicates from an array using Anonymous Function

var arr=function(a){

var b=[];

var n=a.length;

for(let i=0;i<n-1;i++)

{

for(let j=i+1;j<n;j++) {

if(a[i]===a[j])

{

delete a[j]

}

}

}

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

{

if(a[i]%10===Math.floor(a[i]%10))

{

b.push(a[i])

}

}

let c=""

for(let i=0;i<b.length-1;i++)

{

c+=b[i]+" ";

}

c+=b[b.length-1];

return c;

}

console.log(arr([1,1,2,1,2,3,3,3,4,3,3,3,3,2,2,2]));

Remove duplicates from an array using IIFE

(function(a){

var b=[];

var n=a.length;

for(let i=0;i<n-1;i++)

{

for(let j=i+1;j<n;j++)

{

if(a[i]===a[j])

{

delete a[j]

}

}

}

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

{

if(a[i]%10===Math.floor(a[i]%10))

{

b.push(a[i])

}

}

let c=""

for(let i=0;i<b.length-1;i++)

{

c+=b[i]+" ";

}

c+=b[b.length-1];

console.log(c);

})([1,1,2,1,2,3,3,3,4,3,3,3,3,2,2,2]);

1. Rotate an array by k times using Anonymous Function

var rotate=function(a,k){

n=a.length;

c=[];

d="";

for(i=0;i<n;i++)

{

c[(i+k)%(n)]=a[i]

}

for(i=0;i<c.length-1;i++)

{

d+=c[i]+" "

}

d+=c[c.length-1]

return d;

}

console.log(rotate([1,2,3,4,5],2))

Rotate an array by k times using IIFE

(function(a,k){

n=a.length;

c=[];

d="";

for(i=0;i<n;i++)

{

c[(i+k)%(n)]=a[i]

}

for(i=0;i<c.length-1;i++)

{

d+=c[i]+" "

}

d+=c[c.length-1]

console.log(d);

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