These are Coding Dojo’s foundation “Basic 13” algorithm challenges. For each, write a JavaScript function -a suggested function name is included below. Can you finish all of these challenges in less than two minutes each?

**Print 1-255**

function print1To255(){

            for (x=1; x <=255; x++){

            console.log(x);

            }

        }

        print1To255();

**Print Ints and Sum 0-255**

**printIntsAndSum0To255()**

function printIntsAndSum0To255()

            var sum = 0;

            for (x=1; x <=255; x++){

            console.log(x);

            sum += x;

            console.log(sum);

            }

        }

printIntsAndSum0To255();

**Print Max of Array**

**printMaxOfArray(arr)**

   function printMaxOfArray(arr){

            var max=0;

            for (x=0; x < arr.length; x++){

                if (max < arr[x]){

                    max = arr[x];

                    }

                }

                    console.log(max);

            }

        arr = [10,2,5,8,9];

        printMaxOfArray(arr);

**Return Odds Array 1-255**

**returnOddsArray1To255()**

function returnOddsArray1To255(arr){

            var oddArr=[];

            for (x=1; x <= 255; x++){

                if (x%2 == 1){

                    oddArr.push(x);

                    }

                }

                return(oddArr);

            }

**Return Array Count Greater than Y**

**returnArrayCountGreaterThanY(arr, y)**

function returnArrayCountGreaterThanY(arr, y){

            var count=0;

            for (x=0; x<arr.length; x++){

                if (y<arr[x]){

                    count=count+1;

                }

            }

            return(count);

        }

**Print Max, Min, Average Array Values**

**printMaxMinAverageArrayVals(arr)**

function printMaxMinAverageArrayVals(arr){

            var min= arr[0];

            var max=arr[0];

            var total=0;

            for (x=0;x<arr.length;x++){

                if(min>arr[x]){

                    min= arr[x];

                }

                if(max<arr[x]){

                    max= arr[x];

                }

                total += arr[x];

            }

            var avg=total/arr.length;

            console.log(min);

            console.log(max);

            console.log(avg)

        }

**Swap String for Array Negative Values**

**swapStringForArrayNegativeVals(arr** **)**

function swapStringForArrayNegativeVals(arr ) {

            for (x=0;x<arr.length; x++){

                if(arr[x]<0){

                    arr[x] = "Dojo";

                }

            }

            console.log(arr);

        }

**Print Odds 1-255**

**printOdds1To255()**

function printOdds1To255(){

            for(x=1;x<=255;x++){

                if(x%2==1)

                console.log(x)

            }

        }

**Print Array Values**

**printArrayVals(arr)**

function printArrayVals(arr){

            for(x=0;x<arr.length;x++){

                console.log(arr[x]);

            }

        }

**Print Average of Array**

**printAverageOfArray(arr)**

function printAverageOfArray(arr){

            var total=0;

            for(x=0;x<arr.length;x++){

                total = total + arr[x];

            }

            var avg = total/arr.length;

            console.log(avg);

        }

**Square Array Values**

**squareArrayVals(arr)**

function squareArrayVals(arr){

            for(x=0;x<arr.length;x++){

                arr[x] = arr[x]\*arr[x];

            }

            return arr;

        }

**Zero Out Array Negative Numbers**

**zeroOutArrayNegativeVals(arr)**

function zeroOutArrayNegativeVals(arr) {

            for (x=0;x<arr.length; x++){

                if(arr[x]<0){

                    arr[x] = 0;

                }

            }

            return(arr);

        }

**Shift Array Values Left**

**shiftArrayValsLeft(arr)**

function shiftArrayValsLeft(arr){

            for (x=0;x<arr.length; x++){

                arr[x]= arr[x+1];

            }

            arr.pop(arr[0]);

            arr.push(0)

           return arr;

        }