# **The “Basic 13”**

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?

1. **Print 1-255**

print1To255()

Print all the integers from 1 to 255.

**3. Print Ints and Sum 0-255**

printIntsAndSum0To255()

Print integers from 0 to 255, and with each integer print the sum so far.

**5. Find and Print Max**

printMaxOfArray(arr)

Given an array, find and print its largest element.

**7. Array with Odds**

returnOddsArray1To255()

Create an array with all the odd integers between 1 and 255 (inclusive).

**9. Greater than Y**

printArrayCountGreaterThanY(arr, y)

Given an array and a value Y, count and print the number of array values greater than Y.

**11. Max, Min, Average**

printMaxMinAverageArrayVals(arr)

Given an array, print the max, min and average values for that array.

**13. Swap String For Array Negative Values**

swapStringForArrayNegativeVals(arr)

Given an array of numbers, replace any negative values with the string 'Dojo'.

**2. Print Odds 1-255**

printOdds1To255()

Print all odd integers from 1 to 255.

**4. Iterate and Print Array**

printArrayVals(arr)

Iterate through a given array, printing each value.

**6. Get and Print Average**

printAverageOfArray(arr)

Analyze an array’s values and print the average.

**8. Square the Values**

squareArrayVals(arr)

Square each value in a given array, returning that same array with changed values.

**10. Zero Out Negative Numbers**

zeroOutArrayNegativeVals(arr)

Return the given array, after setting any negative values to zero.

**12. Shift Array Values**

shiftArrayValsLeft(arr)

Given an array, move all values forward (to the left) by one index, dropping the first value and leaving a 0 (zero) value at the end of the array.