

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.

2. Print Odds 1-255

`PrintOdds1To255()`

Print all odd 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.

4. Iterate and Print Array

Iterate through a given array, printing each value.

`PrintArrayVals(arr)`

5. Find and Print Max

`PrintMaxOfArray(arr)`

Given an array, find and print its largest element.

6. Get and Print Average

`PrintAverageOfArray(arr)`

Analyze an array’s values and print the average.

7. Array with Odds

`ReturnOddsArray1To255()`

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

8. Square the Values

`SquareArrayVals(arr)`

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

9. Greater than Y

`ReturnArrayCountGreaterThanY(arr, y)`

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

10. Zero Out Negative Numbers

`ZeroOutArrayNegativeVals(arr)`

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

11. Max, Min, Average

`PrintMaxMinAverageArrayVals(arr)`

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

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.

13. Swap String For Array Negative Values

`SwapStringForArrayNegativeVals(arr)`

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