1.Write a function that takes an array of numbers and returns a new array with only the even numbers.

Sample Input: [1, 2, 3, 4, 5, 6]

Sample Output: [2, 4, 6]

2.Implement a function that doubles each element in an array.

Sample Input: [1, 2, 3, 4]

Sample Output: [2, 4, 6, 8]

3.Create a function that takes an array of strings and returns a new array with only the strings that have a length greater than 5.

Sample Input: ['apple', 'banana', 'orange', 'kiwi', 'strawberry']

Sample Output: ['banana', 'orange', 'strawberry']

4.Write a function that calculates the sum of all the numbers in an array.

Sample Input: [1, 2, 3, 4, 5]

Sample Output: 15

5.Implement a function that removes duplicates from an array.

Sample Input: [1, 2, 3, 2, 4, 5, 3]

Sample Output: [1, 2, 3, 4, 5]

6.Create a function that reverses a given array.

Sample Input: [1, 2, 3, 4, 5]

Sample Output: [5, 4, 3, 2, 1]

7.Write a function that takes an array of numbers and returns the maximum number.

Sample Input: [5, 2, 8, 1, 9]

Sample Output: 9

8.Implement a function that merges two arrays and removes duplicates.

Sample Input: ([1, 2, 3], [3, 4, 5])

Sample Output: [1, 2, 3, 4, 5]

9.Create a function that finds the index of a given element in an array. If the element is not found, return -1.

Sample Input: ([10, 20, 30, 40, 50], 30)

Sample Output: 2

10.Write a function that sorts an array of strings in alphabetical order.

Sample Input: ['banana', 'apple', 'orange', 'grape']

Sample Output: ['apple', 'banana', 'grape', 'orange']

11.Write a function that takes an array of strings and returns the count of strings that contain a specific substring.

Sample Input: (['apple', 'banana', 'pineapple', 'kiwi'], 'apple')

Sample Output: 2

12.Implement a function that removes all occurrences of a specific element from an array.

Sample Input: ([1, 2, 3, 4, 2, 5], 2)

Sample Output: [1, 3, 4, 5]

13.Create a function that finds the average of all the numbers in an array.

Sample Input: [10, 20, 30, 40, 50]

Sample Output: 30

14.Write a function that returns the intersection of two arrays (i.e., elements that are present in both arrays).

Sample Input: ([1, 2, 3, 4], [3, 4, 5, 6])

Sample Output: [3, 4]

15.Implement a function that converts an array of strings into a single concatenated string.

Sample Input: (['Hello', 'World', '!'])

Sample Output: 'Hello World !'

16.Create a function that flattens a nested array.

Sample Input: [[1, 2], [3, 4], [5, 6]]

Sample Output: [1, 2, 3, 4, 5, 6]

17.Implement a function that partitions an array into two arrays based on a condition.

Sample Input: ([1, 2, 3, 4, 5], num => num % 2 === 0)

Sample Output: [[2, 4], [1, 3, 5]]