# Top Array Problems

* Two Sum: Given an array of integers and a target value, find two numbers in the array that sum up to the target.
* Container With Most Water: Given an array of non-negative integers representing the heights of vertical lines, determine the maximum area of water that can be trapped between any two lines.
* Maximum Subarray: Find the contiguous subarray within an array that has the largest sum. This problem is also known as the Kadane's algorithm.
* Product of Array Except for Self: Given an array of integers, return an array where each element is the product of all the elements in the original array except itself. The division is not allowed.
* Rotate Array: Rotate an array in-place by a given number of steps to the right.
* Merge Intervals: Given a collection of intervals, merge overlapping intervals.
* Spiral Matrix: Given a matrix, return all elements of the matrix in spiral order.
* Missing Number: Given an array containing n distinct numbers taken from 0 to n, find the missing number.
* Trapping Rain Water: Given an array of non-negative integers representing an elevation map, compute how much water it can trap after raining.
* Product of Two Numbers: Given an array of integers and a target value, find two numbers in the array whose product equals the target.
* Plus One: Given a non-empty array of digits representing a non-negative integer, increment the integer by one.
* Valid Sudoku: Determine if a 9x9 Sudoku board is valid, considering the rules of Sudoku.