

**Problem 1: Maximum Length Subarray with Given Sum**

Given an integer array, find the maximum length subarray having a given sum.

**Problem 2: Pair with Given Sum in an Array**

Given an unsorted integer array, find a pair with the given sum in it.

**Problem 3: Largest Subarray with Equal 0's and 1's**

Given a binary array containing 0's and 1's, find the largest subarray with equal numbers of 0's and 1's.

**Problem 4: Maximum Sum Subarray**

Given an integer array, find a contiguous subarray within it that has the largest sum.

**Problem 5: Minimum Sum Subarray of Size k**

Given an integer array, find the minimum sum subarray of size `k`, where `k` is a positive integer.