Videos for the assignment 4

1. Write an efficient program to find the sum of contiguous subarray within a one-dimensional array of numbers which has the largest sum.
   * <https://youtu.be/00kVDCk6R8E>
2. You are given a list of n-1 integers and these integers are in the range of 1 to n. There are no duplicates in list. One of the integers is missing in the list. Write an efficient code to find the missing integer.
   * <https://youtu.be/Yqe1AC-enfE>
3. Given an unsorted array of nonnegative integers, find a continuous subarray which adds to a given number.
   * <https://youtu.be/3lePPe-74ps>
4. Given an unsorted array of integers, find a subarray which adds to a given number. If there are more than one subarray with sum as the given number, print any of them.
   * <https://youtu.be/uouhIfKl_3g>
5. Write a program to sort an array of 0's,1's and 2's in ascending order.
   * <https://youtu.be/yPqZs-4kWAA>
6. Equilibrium index of an array is an index such that the sum of elements at lower indexes is equal to the sum of elements at higher indexes
   * <https://youtu.be/iFlzhHHMhwg>
7. Write a program to print all the LEADERS in the array. An element is leader if it is greater than all the elements to its right side. And the rightmost element is always a leader.
   * <https://youtu.be/5hWTzkAkMXU>
8. Given an array and a number k where k is smaller than size of array, we need to find the k’th smallest element in the given array. It is given that all array elements are distinct.
   * <https://youtu.be/s1LR9EFWauM>
9. Given a 2D array, print it in spiral form.
   * <https://youtu.be/6MozLvFSHmc>
10. Print the elements of an array in the decreasing frequency if 2 numbers have same frequency then print the one which came first.
    * <https://youtu.be/sNgEJA4Gvvk>