Week-3

1.You are given an array of length N, consisting of integers. Find the sum of the subarray (including empty subarray) having maximum sum among all subarrays and print the subarray

Note: The sum of an empty subarray is 0.
[2.5m]

2.Given an array nums of size n and an integer k, find the length of the longest sub-array and the total number of subarrays that sums to k. If no such sub-array exists, return 0.
[2.5m]

3.Find and print   subarray with sum 0
[2.5m]

3. You are given daily stock prices of a company for n days.
[2.5m]

- Find the k-th smallest stock price without sorting in O(n)).
- Find the 90th percentile stock price (element at position $\lceil 0.9n \rceil$).
- Compare the performance of Linear Selection (O(n)) with the Sorting + Indexing (O(n log n)) approach on large inputs.