07/11/24

560. Subarray Sum Equals K

We have to find the total subarrays sum equals to k

Approach:

Brute Force :

Loop through all the subarrays ans find the count.

TC : O(n^3)

Better :

Loop Through all the Subarrays but in O(n^2) time.

Optimal:

Using PrefixSum :

Store the PrefixSum and their occurrence in the dictionary.

Find s-k in prefixSum if Found the k is the Remaining from the Sum. Add the Count to the total Count.