- & Subarray Barries & fronting all subarray sums
- of Phinking subarreys of Man Subarrey Sun
- A benerating bulsarrays of hum of all bulsarray bung
- & Moan subarry sum of laught le.

Basis

- : continous part of our array is a subarray
 - : comply am 18 not subarray
 - : Brugle clement 15 a subarray

ex = 0 art1 = 2 -2 4 6 3 8 1 4 3 2 -10

1dq 0) [3 4 5 7 8] -> XX [6 19 mmmg] ida 20 [4 5 6 7 8] - W

idy on [4] - W

[] -> XX

Q1, liven a startfdx, and fdx prout the subarray

ex 2) 2 4 2 4 6 3 8 9 -1 0 1 d 3 4 5 6

6(p z) 6 3 8 g و = 5

For (i2s; i42e; i44)
$$\S$$

print (arr [i])

 \S

Q. When an array, find the no of subarrays

ex =) arr [4] => -1 3 d 3

O 1 d 3

Starting from 0: 0-0 -> [-1]

 $0-1 -> [-1 3]$
 $0-2 -> [-1 3 2]$
 $0-3 -> [-1 2 2 3]$

(A)

Starting from [:- [-1 -> [3]

 $1-2 -> [3 2]$
 $1-3 -> [3 2]$
 $1-3 -> [3 2]$

Starting from 2: d-d -> [2]

 3

Starting from 2: d-d -> [2]

 3

Starting from 3: 3-3 -> [2]

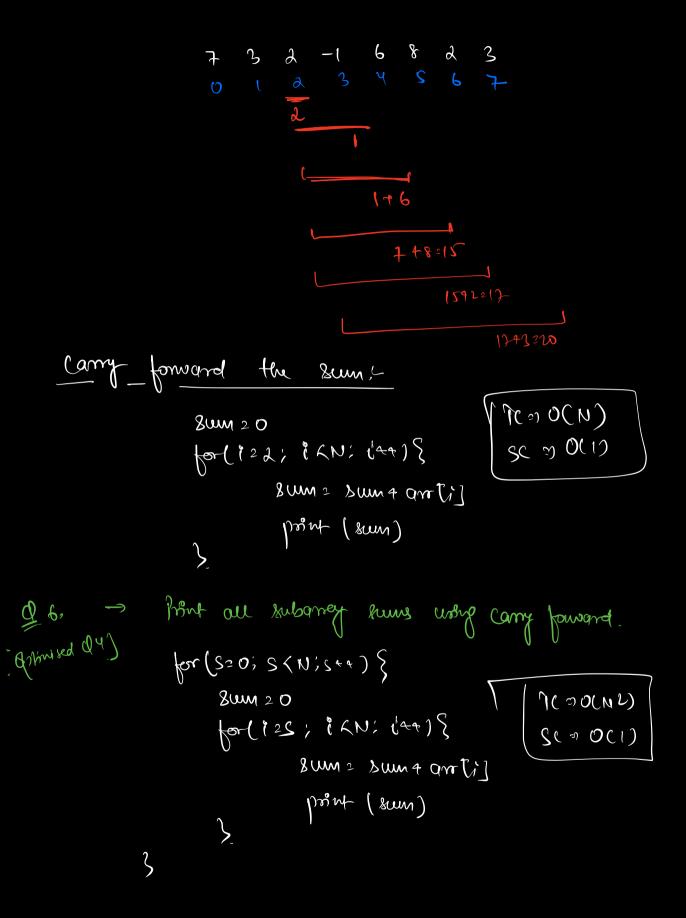
Starting from 3: 3-3 -> [2]

O)

$$N-1$$
 $(N-1)-(N-1)$ | Subarrys.

```
Q3. When an array print all subarrys:
            au[3] => [8 3 3]
                        -> Start from 1 -> Stort from 2
-> 8 year from O;
  0-0 - [8]
                        1-1 -> [2] and > [9].
   0-1 - [82]
                          1-2 - [29]
   0-2 - [829]
          [s e] [s \leq e]
        for (520; SKN; S+4) }
                                        LC2 O(NB)
              for ( C=S; exN; e4+) {
                                        SC 21 OC()
                 // [s-e] - subarray
                     for ( i=5; i<=e; i++) }
                             bunt (autil)
                 = 20 \quad \text{qm} \Rightarrow \begin{bmatrix} 8 & 2 & 9 \end{bmatrix}
  S=>0 S=>0 S=>0 S=>1 S=>1
  e=> b e=> 1 e=> 2 e=> 1 e=> 2
```

0-1 0-2 1-1 1-2 2-2 0~0 82, 829 2 29 Qu, liven an array, print all subarrey sum. $2 \longrightarrow [8] \longrightarrow [8] \longrightarrow [8] \longrightarrow [8] \longrightarrow [8]$ 0-1 -> [8 2] -> 10 D-2 -> [829] -> 19 1-1 - [a] - 2 Bute love 1-2 > [29] -11 2-2 (9) - 9 for (520; SKN; S++) } for (C=S; exN; ett) { SC -20(1) // [s-e] - subarray 8 cm = 0? fort 1=5; i(=e; i(+) } sum = sum + artij: (front (sum)



```
9.7. Find the month sum of all subarray sums:
         may Sum = INF MIN
          for (S=0; S(N; S++) }
              Sum 20
              for(125; 1KN; 14+18
                     8 mm 2 Sum 4 groffi]
                     maglium = mag (maglium, sum)
         ma ters can be solved in - O(N) -> Kadamis Algo
                                           discussed in
                                           Sadvanced lectures?
QE Pront sum of all subarrey sums:
         + Sum 20;
         for (S20; S(N; S+4) }
              Sum 20
              for(125; 1KN; 14+18
                     Sum 2 Sum 4 antil
                    + Sum = + Sum + Sum;
```

of a How many subarrays is ida 3 present? om = 3 -2 4 -1 2 6 Subarrays => [0-3] [2 3] [13) [45] [0-4] [33] [a 4] $\begin{bmatrix} \lambda & s \end{bmatrix}$ [x-2x] [2/3] [0-5] K0-8(1X $\rightarrow [S-e]$ S < 3 & e 7,3. 2 3 4 8 = 4 (no. of 8 igu) 4 3 (no. of elde)

$$\frac{0}{10} \cdot \frac{1}{100} = \frac{1}{100} \cdot \frac{1}$$

