Given an Array et size N & 9 queries et format Annéer & & e. Return the sum et array elements Start end from & to e

Q:4

S	و	ans
	3	12
2_	7	12
4	8	9
0	2_	5

TC: 0(8.N)

SC: 0(1)

En given the score of last 10 overs et a match 41 42 43 44 45 46 47 48 49 288 312 330 349 360 383 394 406 436 439 Quiz-1 Runs scored in last 5 overs. [46,50] Qui2-2 Runs scored in 50th Over. 439 - 436 = 3

guiz-3 Runs scored in 49th over.

R[49] - R[48]

436 - 406 => 30

Juiz-4 Runs scared from 42nd to 45th over:
[42,45]

R[45] - R[41]

360 - 288

Create a new Array of Prefin Sun => Every inden stores the sum of all elements from Start (oth inden) till that inden

A: -3 6 2 4 5 2 8 -4 3 1 PS[]: -3 3 5 9 14 16 24 15 18 19

(1-U)28

Sum of Array

PS[0]A: [0]29

PS[1]: 8mm [0-1]

: PS[0]+A[1]

PS[2] = PS[1] + A[2]

PS[3]: PS[2]+ A[3]

PS[4]: PS[3] + A[4]

Pslij = Psli-1] + Alij

i=0, PS[0] = A[0]

int PS[N]

(0)A = (0)29

for(i= ⊥; i(N; i++) {

95/13 = 95/1-1) + A[1]

ઝ_ |

TC: OIN'

8C: O(N)

S e ans

L 3
$$PS[3] - PS[0] = 9 - (-3) = 12$$

2 7 $PS[7] - PS[2-1] = 15 - 3 = 12$

4 8 $PS[8] - PS[3] = 18 - 9 = 9$

0 2 $PS[2] = 5$

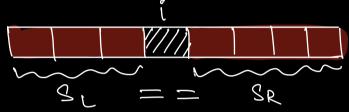
Sum $[0-2]$

Given an Array, return true if there enists an equilibrium inden in the Array.

Equilibrium Inden:

Sum ex elements = Sum ex elements

on left side on right side



A:
$$1, 2, 3, 4, 8, 10$$

$$S_{L} = 10$$

$$EQ S_{R} = 10$$

guiz

A:
$$-\frac{1}{4}$$
, $\frac{1}{5}$, $\frac{3}{2}$, $\frac{4}{4}$, $\frac{5}{3}$, $\frac{5}{6}$ $\frac{5}{8}$ $\frac{2}{8}$ $\frac{2}{$

Brute Force S_{\perp} SR for every if (SL = = SR) return tone; SL: Sum [0, i-1] SR: Sum [i+1, N-1] for every inden i: if(8 == 8 R) return true; 3 $\underline{\underline{TC:}} O(N \cdot N) \Rightarrow O(N^2)$

Steps

2)
$$S_L = RS[i-1]$$

 $S_R = RS[N-1] - RS[i]$ for every $O(N)$
 $if(S_L = = S_R)$
veturn true

TC: O(N)

10:39 pm

Special Inden X