## **DSA Class 1**

## **Resources:**

https://www.geeksforgeeks.org/learn-data-structures-and-algorithms-dsa-tutorial/?ref=shm&fbclid=IwAR3IJdB0x59iUfqEuDADrAlFs8\_T3VidQwx3NnWjRKZPgFW-ekaGEo0cbVA

https://www.geeksforgeeks.org/introduction-to-arrays-data-structure-and-algorithm-tutorials/?fbclid=IwAR0p316YRdIqC9gklL2fwMT5VVyuDUT-Kk19\_DrYMZX6669h-er3-Kc28Z4

## **Problems:**

https://leetcode.com/problems/running-sum-of-1d-array/

https://leetcode.com/problems/find-pivot-index/

https://leetcode.com/problems/sum-of-all-odd-length-subarrays/

https://leetcode.com/problems/left-and-right-sum-differences/

https://leetcode.com/problems/subarray-sum-equals-k/

**Explanations** 

Collection of Same type

Date Type Name [10];
int art [5]={1-2737

5,6,7 8,9,10)

47 [5] 2 | 1 | 5 | 10 ] 5 | 1 | 2 | 7 | 5 | 10 ] 5 | 1 | 2 | 7 | 5 | 10 ]

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for (1=0;1<5) 1+1)

{
co+<<an[i];

Subannay 87 (8), (8,2), (8,273)  $2 \rightarrow (3)(2,3)(2,3)$  (2,3)(2,3) (2,3)(3,1) (3,1)(3,1) (3,1)(3,1) (3,1)(3,1)10 - (10)

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$$Total = 15$$
 $Formula = (2-1)$ 

$$\begin{array}{c|c}
\hline
5/1/2/8 \\
0000 \overline{\Rightarrow}() \times |0110 \overline{\Rightarrow}(1/2) \\
00010 \overline{\Rightarrow}(2) \\
0011 \overline{\Rightarrow}(2/8) \\
0101 \overline{\Rightarrow}(1/8) \\
0101 \overline{\Rightarrow}(1/8)
\end{array}$$

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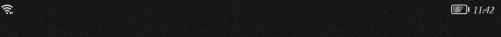
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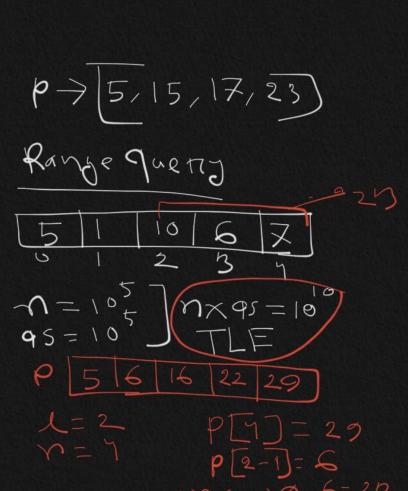
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## Prefix Sum









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