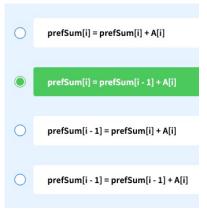


MCQ's (Assignment) Prefix Sum (Introduction to Problem Solving - I)

The prefix sum formula for an array **A** of **N** integers is given by :-



O(N^3)

Q2. Time Complexity of Prefix Sum ☐ ⊙ Solved ☐

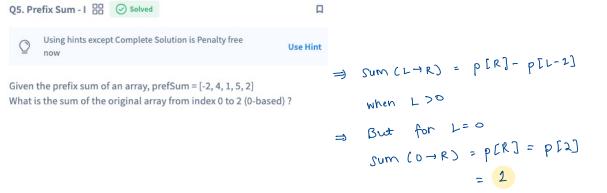
☐ Using hints except Complete Solution is Penalty free now Use Hint

What is the time complexity of creating the prefix sum array of an array **A** of **N** integers ?

O(1)

Ne only iterate the array once while cheating prejix sum

O(N/2)





Given the prefix sum of an array, prefSum = [-2, 4, 1, 5, 2] What is the sum of the original array from index 2 to 4 (0-based)?

$$\Rightarrow \quad \text{Sum } (L \rightarrow R) = \rho[R] - \rho[L-1] , \text{ as } L > 0$$

$$= \rho[A] - \rho[1] = 2 - 4$$

$$= -2$$