Array-2

09 November 2025 20:22

Maximum subarray with sliding window sum given

[4, -1, 2, 10, -2, 3, -1, 5, -3] K = 4

① Initial ⇒ n = 9

Window_Sum = 0

n & k

Sum of first window

WS = 0 + 4 + (-1) + 2 + 10 = 15

MS = WS = 15

i = 4

WS = 15 - 4 = 11

WS = 11 + (-2) = 9

MS = m(15, 9) = 15

i = 5

WS = 9 + (-1) = 10

WS = 10 + 3 = 13

MS = m(15, 13) = 15

i = 6

WS = 13 - 2 = 11

WS = 11 + (-1) = 10

MS = m(15, 10) = 15

i = 7

WS = 10 - (10) = 0

WS = 0 + 5 = 5

MS = m(15, 5) = 15

i = 8

WS = 5 - (-2) = +7

WS = +7 + (-3) = 4

MS = m(15, 4) = 15

i = 9 → > size

Return MS → 15