Two Pointers

Vsed fore: - Souted arrays / Linkedlist

Scenario :- Jo find set of elements that fulfill certain constraints.

eg. a pain, triplet on subarray.

Example: - fiven an access of southed nembers and a target sum, find a pair in access whose sum equal to given target.

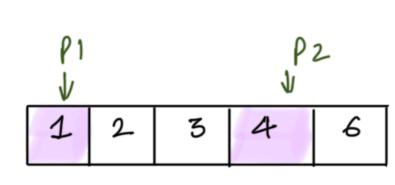
farget sum=6

P1 -> Pointer 1

P2 -> Pointer 2

1 2 3 4 6

(1) Stanting with PI at 0 (Stanting of away) and P2 at length-I (ending of array)



Sum = 1+6 = 7 Sum > tauget Sum. So we decrement P2 to get a smaller sum Now sum = 1+4 = 5. Sum < tauget Sum. So we have to incuement P1 to get a lauger sum.

Sum = 2+4=6 Sum = taleget Sum Bulak loop and eletur indexes.

Time Complexity: - O(N)