Sliding Windows

Max Consecutive Sum

Given an array of positive, negative integers, return a consecutive seq that sums to largest amount.

0(n3)

For every (i,j), i < j, compute arr(i)Return seq with max sum $o(n^2)$ pairs, each sum computation for (i,j)takes d(n) time., so $O(n^3)$

0(12)

- -) Pre compute sum_{-} $till_{-}[i]_{-}$ $till_{-}$ $till_{-}$
- -> For every pair (i,i): sum_till_[i]i<i

 $= O(U_5)$

- -) Find max O(n)
- -> so overall o(n2)

O(n) time

Best_sum_ ending_at [j] = max (arr [i], Best - sum-ending-at [[1] + der []]

- At each index i, you can either extend the ongoing subarray, or start afresh

ars = [-2 1 -3 4 -1 2 1 -5 4] Best sen 511

-2 te

-a, 1

-2, 1, -3

-2, 1, -3, 4

-a, 1, -3, 4, -1 3 + 4 + -1 > -1

-2, 1, -3, 4, -1, 3 5=3+2 > 2

-a, 1, -3, 4, -1, a, 1 6 = 5 + 1

一つ, 1, 一3, 4, 一, 2, 1, -5, 1=6+-5 > -5

-2, 1, -3, 4, -1, 2, 1, -5, 4 -1+4<4

-1= -2+1 < 1

-2= 4+-3 > -3

-2+4 \prec 4

