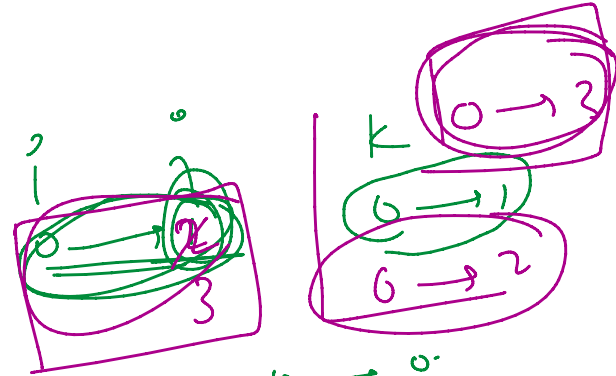


[-2,1,-3,4,-1,2,1,-5,4]

Subarray \rightarrow contiguous part of an array

[1,2,3,4] \rightarrow [1], [2], [3], [4]
[1,2], [1,2,3], [1,2,3,4]
[2,3], [2,3,4]
[3,4]

[-1, -2, -3, -4] \rightarrow -1



loop
[2,1,-3,4,-1,2,1,-5,4]
ans = -2
[-2], [-2,1], [-2,1,-3], [-2,1,-3,4], [-2,1,-3,4,-1]
[-2,1,-3,4,-1,2], [-2,1,-3,4,-1,2,1], [-2,1,-3,4,-1,2,1,-5]
[-2,1,-3,4,-1,2,1,-5,4]
[1,3], [1,-3], [1,-3,4], [1,-3,4,-1], [1,-3,4,-1,2]
[1,-3,4,-1,2,1], [1,-3,4,-1,2,1,-5], [1,-3,4,-1,2,1,-5,4]
[-3,3], [-3,4], [-3,4,-1], [-3,4,-1,2], [-3,4,-1,2,1]
[-3,4,-1,2,1,-5,4]

ans = INT_MIN $\rightarrow -\infty$ \rightarrow Most -ve value in C++
for (int i=0; i<n; i++)

{ int sum = 0;
for (int j=i; j<n; j++)
{
sum = sum + arr[j];
ans = max(sum, ans);
}}

sum = sum + arr[j];

ans = max(sum, ans);

9 \rightarrow 165
172
18 times

10000 \rightarrow 180000
107

0, 1, 2
-2 + 1 = -1
(-1) + (-3) = -4

1 sec \rightarrow 10^8 computations \rightarrow 18000^0

10^7
 10^8
 16×10^7

10 \rightarrow TS times

Sum = 0

$[-2], [-2, 1], [2, 1, -3], [-2, 1, -3, 4]$
 $[1], [1, -3], [1, -3, 4]$

$[-2, 1, -3, 4, -1, 2, 1, -5, 4]$

for (int i=0; i<n; i++)
 cursum += arr[i]
 ans = max(cursum, ans)
 if (cursum < 0)
 (cursum = 0)

ans: 6

cursum: 0, 1, -2, 4, 3, 2, -1, -4, -5

$[1, -3] = -2$
 $++++ -2$
 sum \rightarrow sum - 2