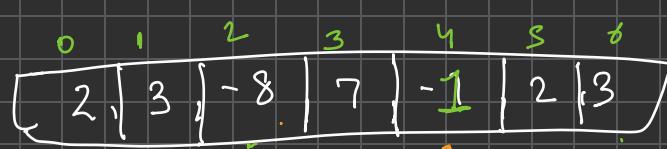
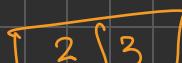


ans  $\Rightarrow$  2 5

sum = 0

sum = 2 3  
- 3



$O(n^2)$

$O(n)$

$O(n^2)$

for ( $i = 0$ ;  $i < n$ ;  $i++$ )  
sum = 0  
for ( $j = i$ ;  $j < n$ ;  $j++$ )

{ sum += arr[j];

ans = max(sum, ans);

4

$$\boxed{2(3 \boxed{-8}) \boxed{13}}$$

Q(1)

$$\begin{array}{r} 2(3 \boxed{-8}) \boxed{13} \\ \hline 4 \quad 8 \\ \hline 2 \quad 3 \quad -8 \quad 7 \quad -1 \quad 2 \quad 3 \\ \hline \end{array}$$

Ans = 2

Complete

$$\text{Sum} = 28 - 3 \times 7$$

$$\boxed{7 \boxed{-1} \boxed{2} \boxed{3}}$$

$$\text{Sum} = 8 - 6 - 8 + 1$$

$$\begin{array}{r} 3 \boxed{5} \boxed{7} \boxed{-4} \boxed{8} \boxed{3} \boxed{-20} \boxed{4} \\ \hline \end{array}$$

Ans = ~~107~~

8 15 19 22

value

8

$$\text{Sum} \Rightarrow 8 -$$

1 <sup>1st</sup> 22 <sup>value</sup> <sup>1st</sup> <sup>value</sup> <sup>1st</sup>

1 <sup>1st</sup> 22 <sup>value</sup> <sup>1st</sup> <sup>value</sup> <sup>1st</sup>

0	1	2	3	4	5	6
3	4	-2	5	-15	4	3
3	-1	5	10	-5	4	7

$$\text{ans} = \boxed{\text{INT-MIN}}$$

Max  
Sum  
Sub

0	1	2	3	4	5	6
3	4	-2	5	-15	4	3
3	-1	5	10	-5	4	7

$$\text{SubSum} = 4 \cdot 7 -$$

$$\text{Min} = 87 \quad \text{MaxSum} = \cancel{\text{INT-MIN}} = 23 \neq 10$$

[3, 0, 2, 0, 4]

⑦



```
for(i=1, i < n-1, i++)
```

```
{ int minLeftRight = min(LeftMax[i-1], RightMax[i+1]) }
```

```
if(minLeftRight > arr[i]) minLeftRight = arr[i];
```

```
totalWater += minLeftRight - arr[i];
```

```
}
```

(Left) 4 2 1 9 0 6 4 0 3 2

Prefix Max 4 4 4 4 6 6 6 6 6

Suffix Max 6 6 6 6 6 4 3 3 2

total water = 0 2 8 9

(i-2)



Total = 12

min(left+max, Right)

value - height

If water



Array

Left Pointer  
Right Pointer

Max Element