- 1) Sliding Window
- 2) Few problems
- 3) TLE ??

$$\uparrow \qquad 0 \qquad 1 \qquad 2 \qquad 3 \qquad 4 \qquad 5 \qquad 6 \qquad 7 \qquad 8 \qquad 9 \qquad 10 \qquad 11 \\
A[12] = 3, 4, 2, -1, 6, 7, 8, 9, 3, 2, -1, 4$$

$$K = 3$$

$$S, C \Rightarrow Q (e-S+1)$$

$$S, e$$

$$S, Leryth (l+S-1)$$

$$1 \quad 3$$

$$2 \quad 4$$

$$N-1$$

3 5 
$$(i=0; i< N; i++)$$

9 11  $(2-3)$ 
 $(N-1)-3+1$ 

Code

$$K = 3 \text{ give}^{-1}$$
 $F'(i=0)$ ;  $i \in N-K$ ;  $i++1 \neq 1$ 
 $j = i+K-1$ ;

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 $f'(i=0)$ ;  $i \in N-K$ ;  $i++1 \neq 1$ 
 $f'(i=0)$ ;  $f'$ 

Solvi

Brute force

$$\stackrel{\sim}{\longrightarrow} 0 \underbrace{(2N-K)}_{N} \Rightarrow 0 \underbrace{(N)}_{N}$$

S.C. = 
$$0(N)$$

Not allowed

A =  $3$ ,  $4$ ,  $-2$ ,  $5$ ,  $3$ ,  $-2$ ,  $8$ ,  $2$ ,  $-1$ ,  $4$ 

$$\Rightarrow S[0-4] = 7$$

$$S[1-5] = 7 - A[0] + A[5]$$

$$= 7 - (-3) + (-2) = 8$$

$$S(2-6) = 8-A[1]+A[6] = 8-4+8=12$$

$$S[i] = S$$

$$S(i+i)$$
,  $j+i) = S-A(i)+A(j+i)$ 

Sliding Window.

$$S = 1$$
;  $C = K (g+k-r)$ 

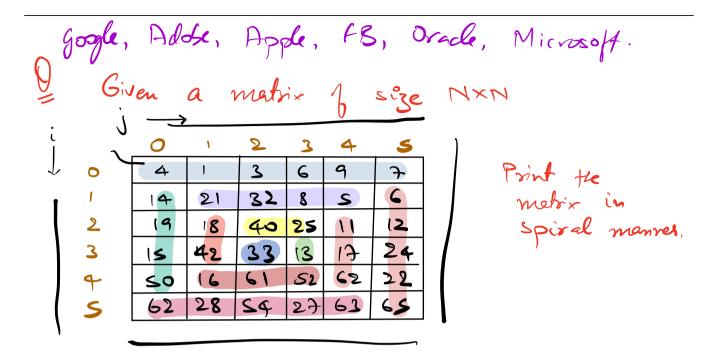
while  $(S \leq N-K)d$ 
 $Sum = Sum - A[s-]+ A[e]$ ;

 $ans = ma_{n} (ans, Sum);$ 
 $S+t'$ ;
 $E+t'$ ;

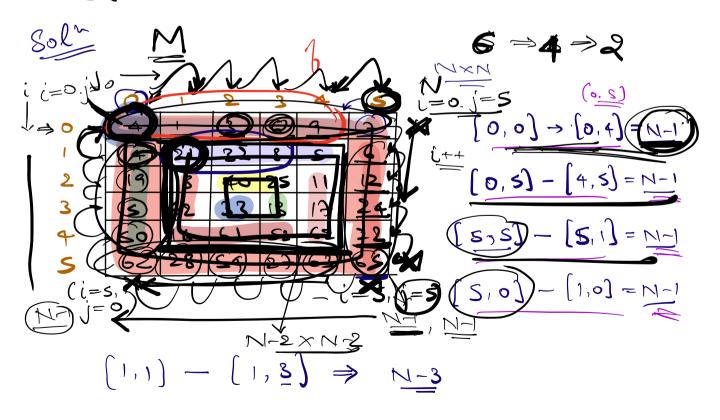
7

$$T \cdot C = O(L)$$

$$S \cdot C = O(L)$$



Print
4, 1,3,6,9,7,6,12,24,22,65,22...



```
Code
  \dot{v} = 0, \dot{j} = 0
   while (N > 1)
         count = 0;
          while (count < N-1) d

print M[i][j];

count ++;
       count = 0;
       while (court < N-1) L
            print (M (i));
2
              i++',
      court = 0;
      while (cont < N-1) of
             Print (M[i](j));
3
             count ++1;
      Z
     comt = Di
      while (count < H-1) {
             Doint (M(i)(i));
4
```

// 
$$i = 0$$
,  $j = 0$ 

$$N = N-2;$$

$$i + +;$$

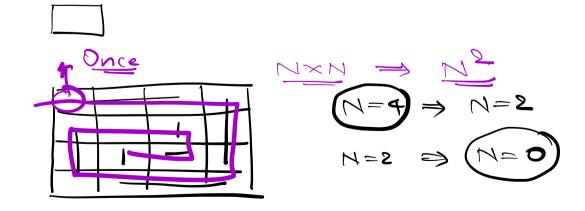
$$j + +;$$

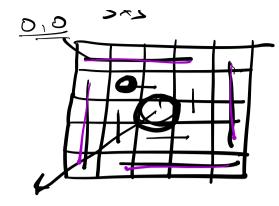
$$M (N = = 1) d$$

$$Point M[i][j];$$

$$8 \rightarrow 6 \rightarrow 4 \rightarrow 2 \rightarrow 0$$

$$10 \rightarrow 8$$





$$N=3 \Rightarrow N=3 (0,0)$$
 $(0,1)$ 
 $N=3 \Rightarrow N=1 (1,1)$ 
 $(2,2)$ 

2.2

$$T \cdot C = O((x n^2) = O(n^2)$$

$$4(n-1) + 4(n-3) + 4(n-s)$$
 $+(n-1) + (n-3) + (n-s)$ 
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 $+(n-1) + (n-3) + (n-s)$ 

