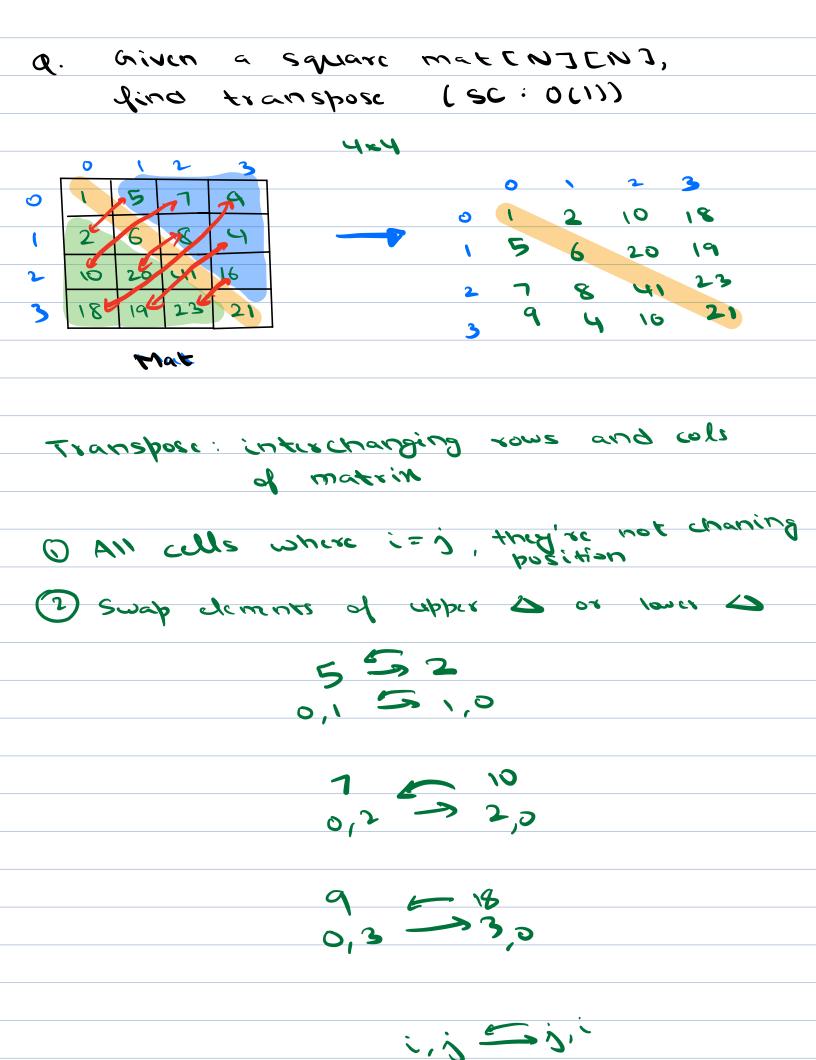
Matrix Transpose
Rotate Matrix by 90 digrece
Length of longest consecutive ones
Reverse String word by word



400 0 → cal 1 to 3
400 1 → cal 2 to 3
400 2 → cal 3 to 3

101 (100) 700 < N-1; 100 ++) <

101 (100) = 100) ; (01 < N; (01 ++) <

500) [mat [200] [mat [200]]

mat [200] [mat [200]]

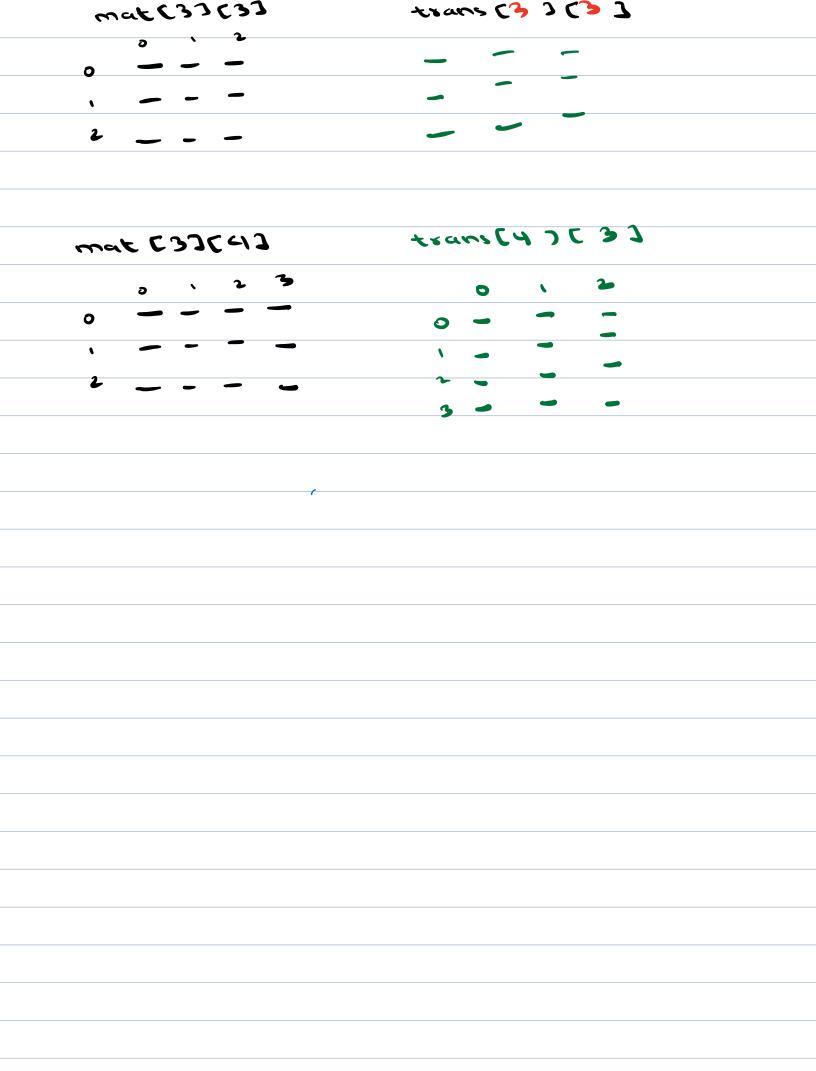
Monat (N) I(N)

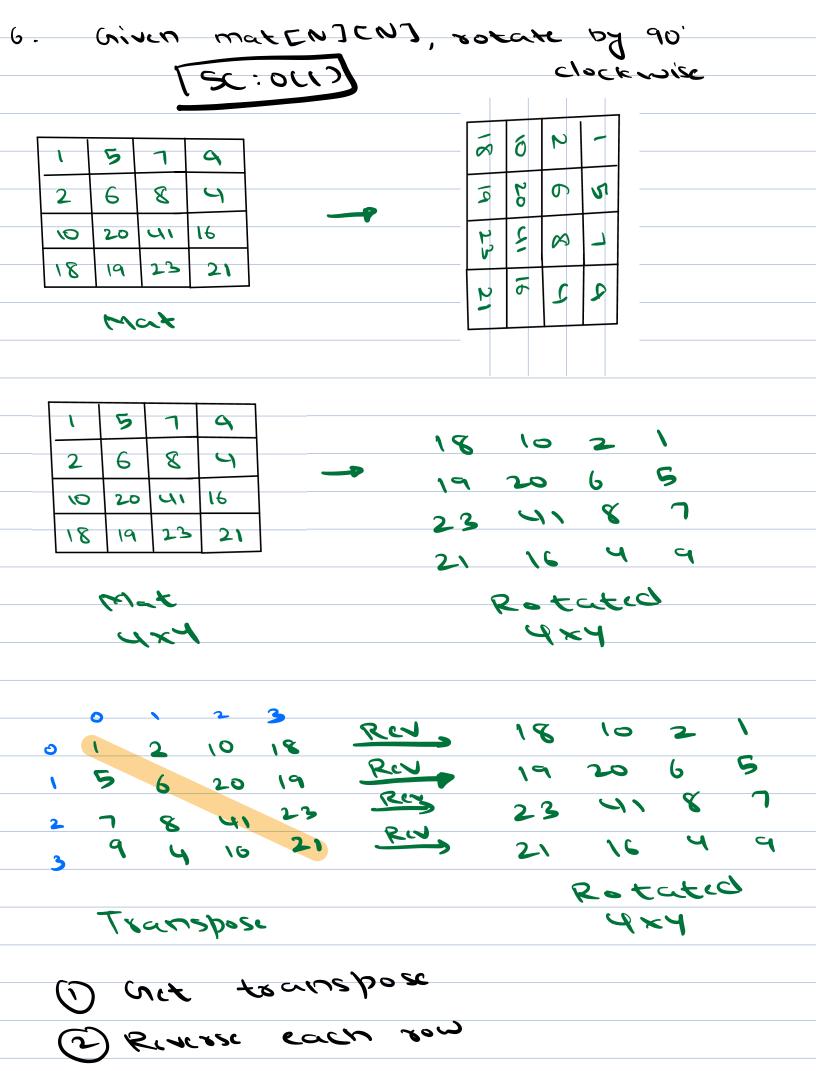
Total ele = N×N=N²

Ele apart from diagonal = N²-N

Ele in upper  $\Delta = N^2-N$ 

TC:0(N2) SC:0(1)





(1) transposi (mat) - N2 2) for ( 400 = 0; 400 < N; 400++) < 11 reverse a 700 1- W=i, 0= i sni while (i < j) < swep (mat Crow) Ci), mat Crow) (j)) Reverse 1 row -> N/2 RIVERSE N 6005 - NXN/2 LC: 0(43) 20:0(1)

3. Griven a binary array (all elements are 0/1), we are allowed to replace atmost one 0 with a 1.

Find the max length of consecutive 1s.

Ex 2 1 1 9 1 1 0 1 1 0 ans = 6

Approach: Try replacing every 0, and find max conscutive ones because of replacement.

O= CiJA JT

- (1) Count consecutive 15 on left side (1 → i-1 to 0)

ans = max (ans, ent)

int find May Consecutive Once (int nums []) < int n = nums.size() int ans = 0 for (i=0; i<0) if (nums Ci ] = = 0) < 11 replace 0 with 1 int j= i-1, cnt-left =0 while (130 22 nome (1) ==1) < cont-left ij= i+1, cnt-right =0 while GEN 22 nome 53 ==176 1 cost - xight ++ j++ int ent = ent-left & ent-right +1 ans = max (anc, cnt) Y = C / / / / / 3 if (ans = =0) ans = Y return ans A = CO 0 00 J ans = 1

1011111111111111 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 i Loop **ડ** 14६ 1 right

1 de 3 Hor

ans=\$ \$ \$ 7

N ele > 3N its

LC:00%

SC: 0(1)

1 elc > n : to

ans remains 0 in 2 casu

C coop won't run

(2) array containing all 1s

if condition is always fulse

actual ars = N

N=0 N=5 (11111) (10:30)

## 4. Modified version of max consecutive Is Given a binary array (all elements are 0/1), we are allowed to swap atmost one 0 with 1 present in array itself.

Find the max length of consecutive 1s.

Ex 1

A = 10

O ars=

A = 10 10 5 (14x)

Approach: Swap

when there is an extra 1 (apast

1 (1+ x < totalona) < lamb and s)

cont = 1 + x + 1

Case 2: No extra 1 .. 600 11110 111 000 -cnt = 1 +6 int find Men Consecutive Once (int nums[]) < int n=nums.size() int ans=0, total ony=0 for (i=0; i < "); i++) < if conscio = =1) fi of ctotal ones = = N) return N for (=0; (< ~); (++) < if (noms Cil = = 0) } 11 swap o with 1 int j= i-1, cnt-left =0 while cj30 22 nome cj3 ==176 - cont-left++ j--3= i+1, cnt-right =0 while GEN 22 nome Cj3 ==176

cux-xidue if contalt + unt - right <
total onus cat = cat-left & cat-right +1 clsc < | cnt = cnt - lyt = cnt - right ans = max (anc, cnt) Y = C / / / / / / / / / / / return ans ans =4 A = CO 0 00 J ans =1 11300000 ans=0 8-mortson fotal onu = 5 0011000 LC:0(4) SC: OCI)

5. Viven an input string s, reverse order of the words.

s="scaler is the best"

off: best the is scaler

ofs: world " - llo

Approach 1: 1. Split the words by space 2. Reverse word one by one and append them together.

String reverse words (String s) &

String [] words = s. split (" 1/s + ")

String builder sb = new string Builder()

for (i = words. length ()-1; i ≥0; i--) &

Sb.append (word Ei))

if (i > 0)

sb.append (" ")

return sb. tostring()

Solve CA)  $A = A \cdot Strip()$   $A = A \cdot Split()$  A = C : : -13 A = C : : -13 A = C : : -13

Approach 2

© "I like Scaler" → "relacs ckil I"

@ Reverse every word Scaler like I