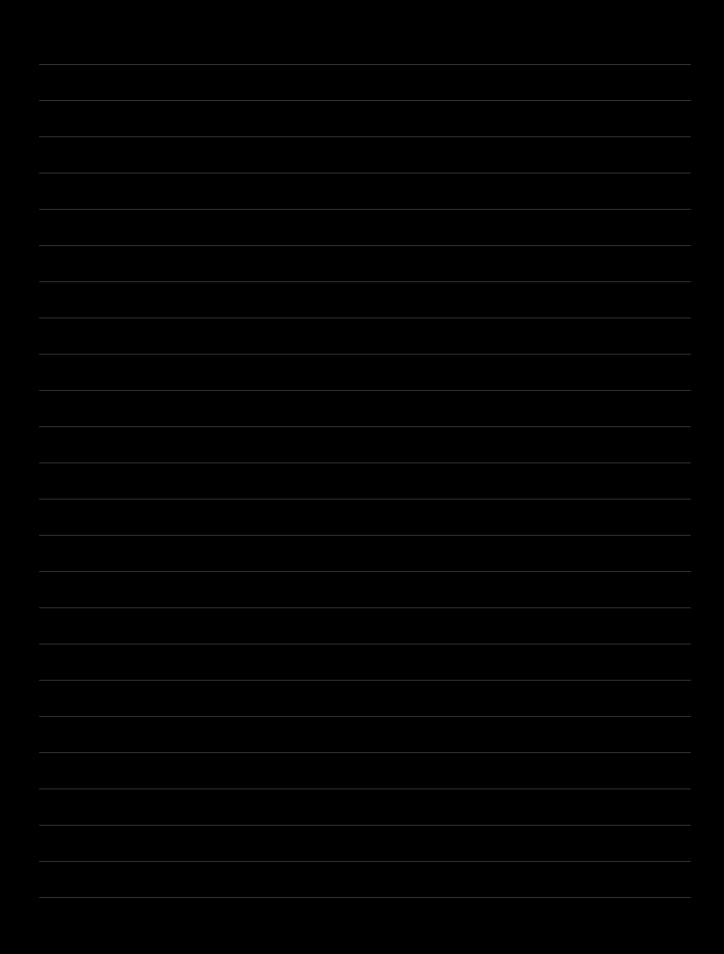
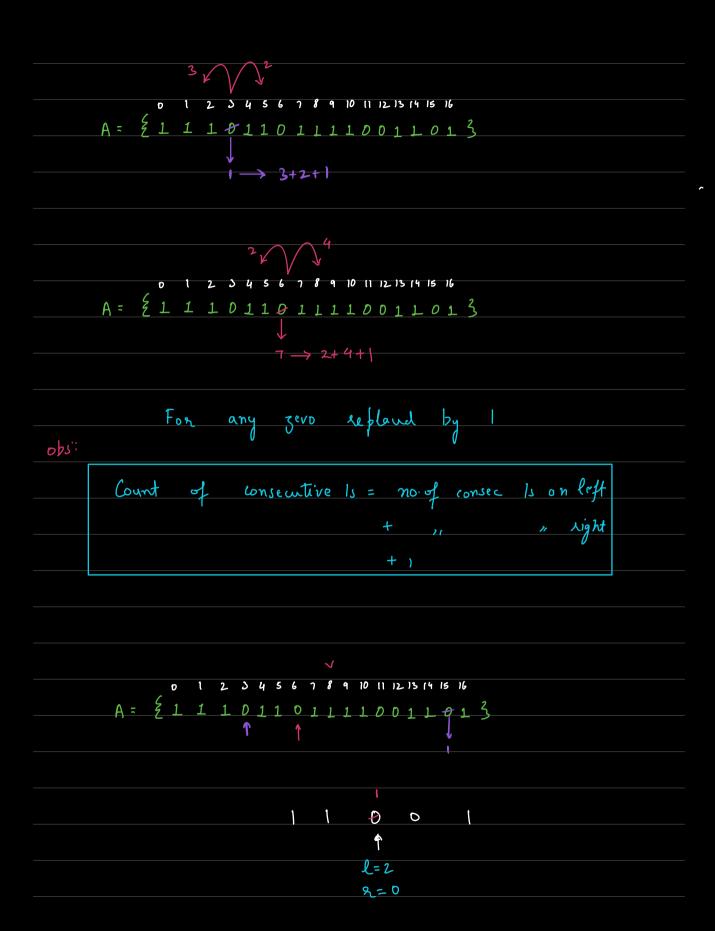
Contest 2
1.5 hours 3 questions
No MCQ
→ Revise class notes
→ HW/ Assignments
Sorting, Bit Manipular, modular
The state of the s
Interview problems
LYWWY TEN JANGT CHO

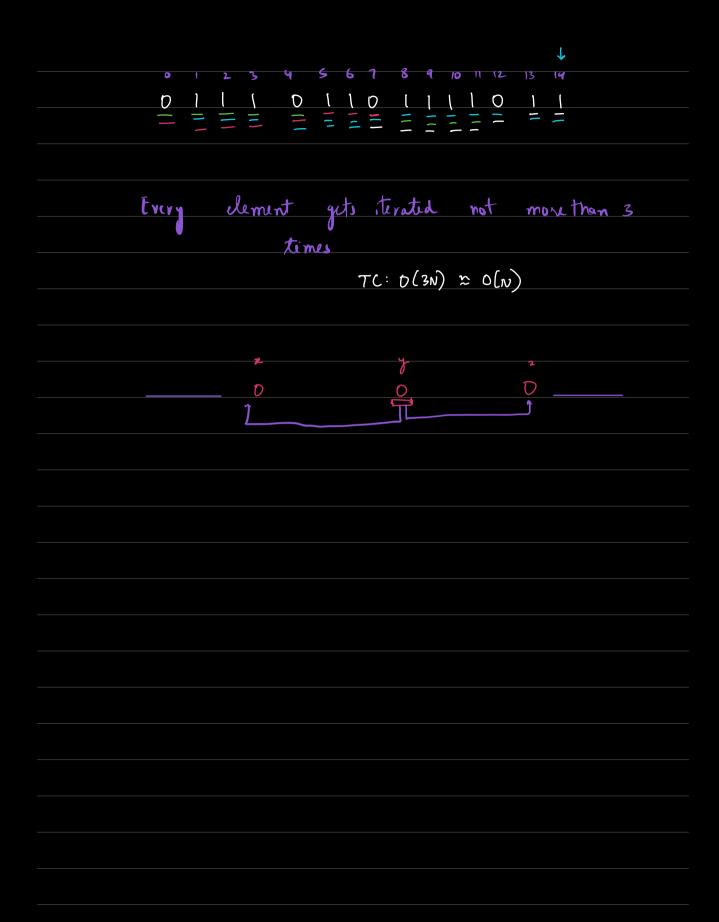


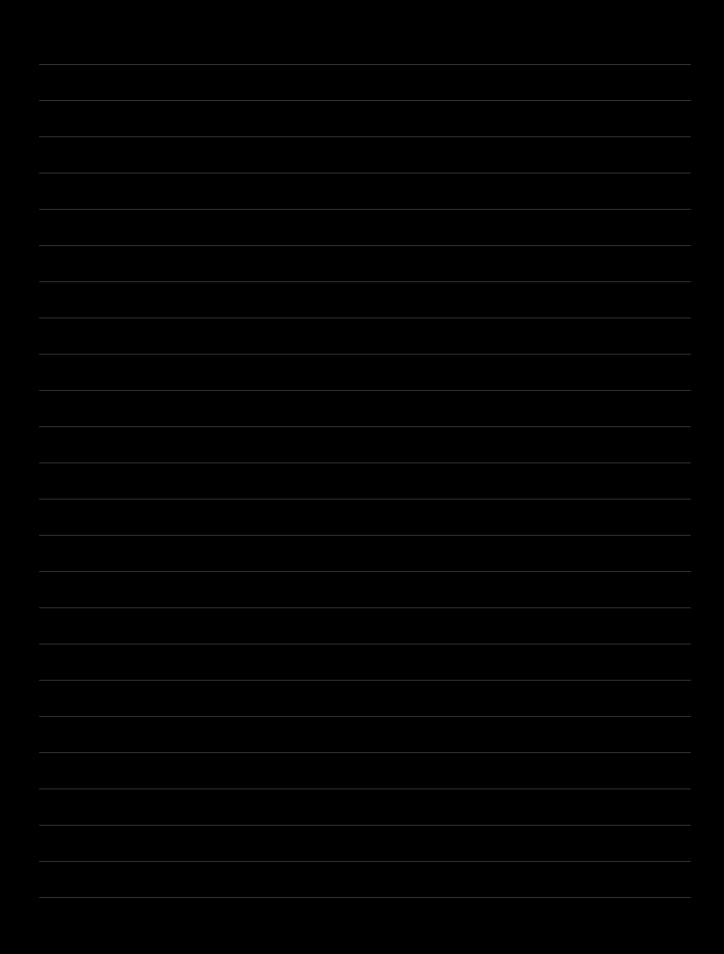
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A = \(\frac{\xi}{2} \) \(\frac{1}{2} \)

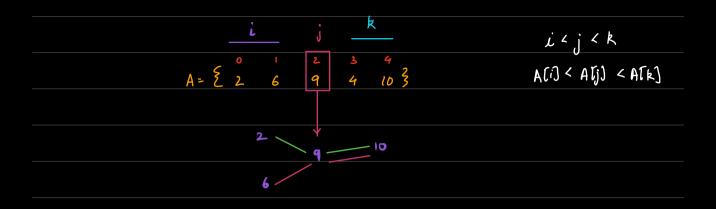


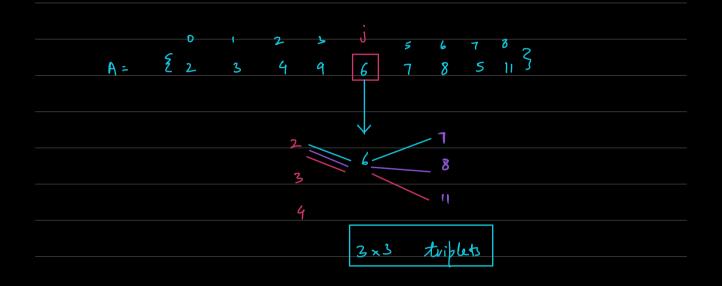
consectmax = D
for (i=0; i <n; i++)="" th="" {<=""></n;>
$\frac{3(0==0)}{2}$
count Consec Is on left and right
L = O
for(j=i-1;j>=0;j){
i∫ (A[j] = -0) {
breck 3
3 L++
3
<u></u> አ = 0
for (j=i+1; j <n; j++)="" th="" {="" <=""></n;>
if (Atj3 = = 0) {
June Bruck
<u> </u>
consec 1 = 1+2+1
Consect max = max (consect max, consect)
3
if (consect max ==0) & seturn A.size()
return consic man





Φ4)	Giren	an	array	, find	number	of of	triplets	
	Ĺ, j	l Ł		.ch that		<i>U</i>		
	V							
iLi	< k			A = \(\frac{2}{2} \)	6 9	3 4 4 10	3	
	tj) < at							
		i	j	K	A Ci	3 ACj?	A[k]	
				2		. 6	9	
		O	1	4		- 6		
			2			2 9		
				4		4		
			2		6	ું વ	10	
			5 tri	plets are	there			
			Beuti.	force:	3 n	ested	loobs	
			J 111 - 5					





A= { 2	6	2 9	3 4	10 3
	ı	2	ı	4
_ r _ 9	2	11	ı	O
ans:	 x2=2]×2 = 2	1	0

Ans: 2+2+1 = 5

ans = D

TC: 0 (N2)

for every inden j

l=0 i: j-1 →0 if (A[j] > A[i]) ++

R=O K: jt1 -> N-1 if (A[r] > A[j]) N++

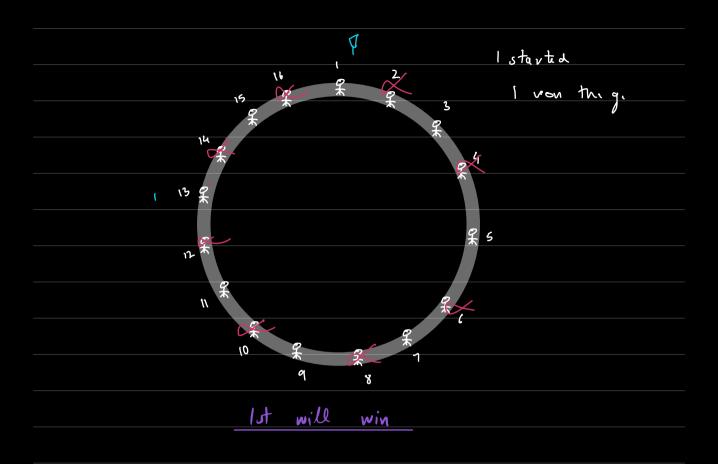
ans += 17x

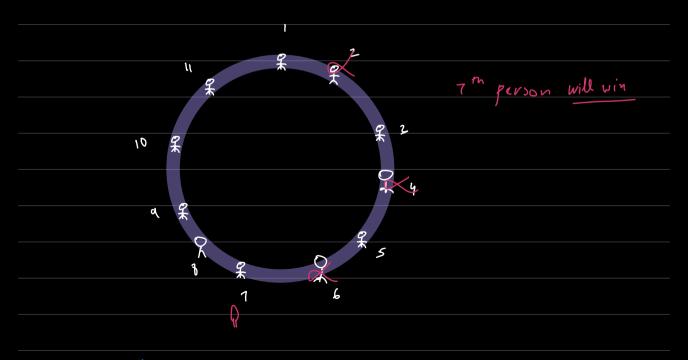
return ans

Breck (10: 20 - 10:30)



Tosephus -> Tewish soldier





* **	when	N	١٤	a	Pon	מנע פל	2	
		who ever			I	7	gami	wiw
							d	

N	No. of people killed before 2"	Winner
17	1 -> 16	3
12_	4 -> 8 Alive	9
67	3 -> 64	7
133	5 -> 128	11th (2kills+1)
13	5 - 8	11 (ZKi+1)
.,, 7	16	2 (9 4) - 20

return 2xkills +1

Rapid firm

$$4 \rightarrow 7$$
 , $z = 0$

Z

set y bits after a unset but

y = 4 x = 3

1111000

[2,2]=y

Z -x+1= y

Z= y+z-)

a = 0

for (i=z; i<-j+z-1; i+t) { 1 a= set(i,a)