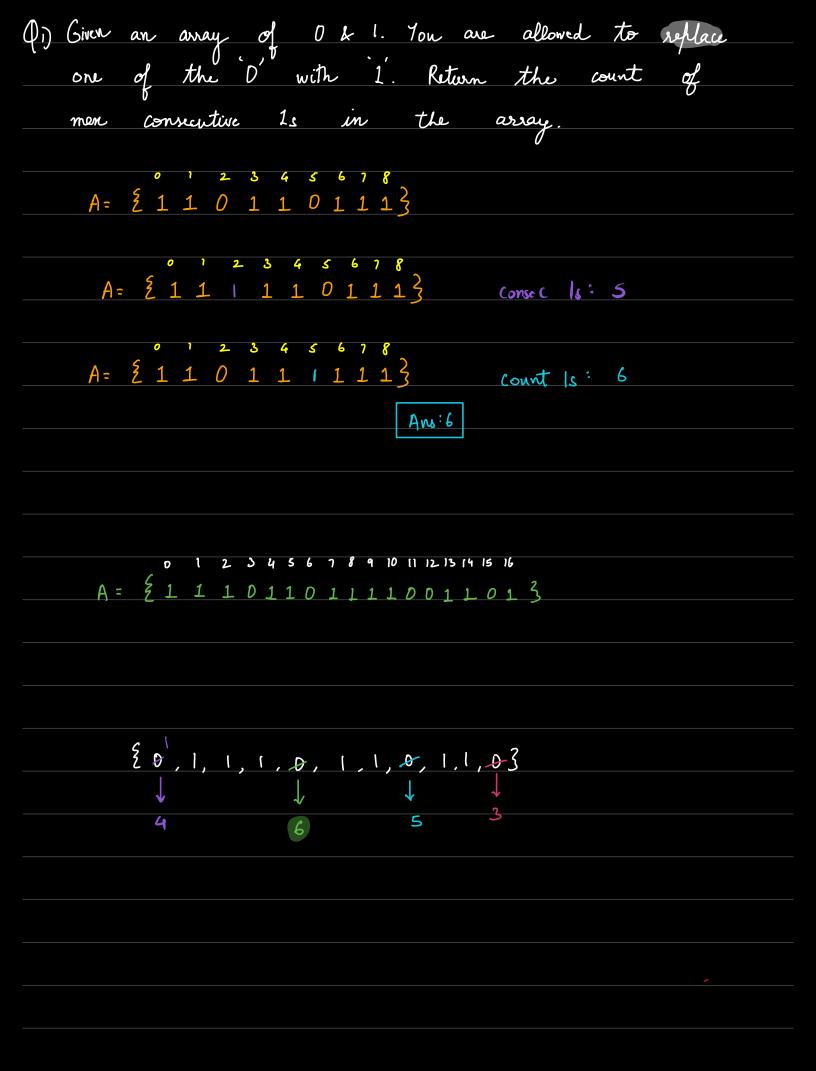
Contest 2
1.5 hours 3 questions
1.5 hours 3 questions No MCQ
→ Revise class notes
→ HW/ Assignments
•
Sorting, Bit Manipular, modular
Interview problems
,

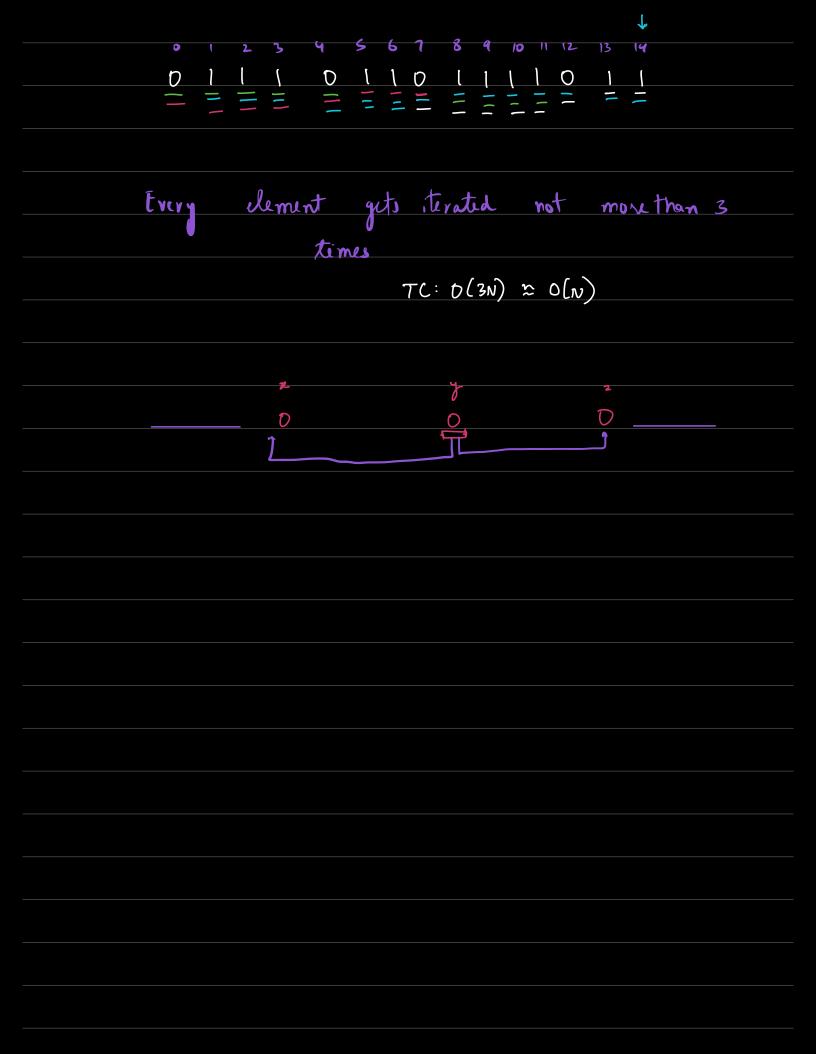




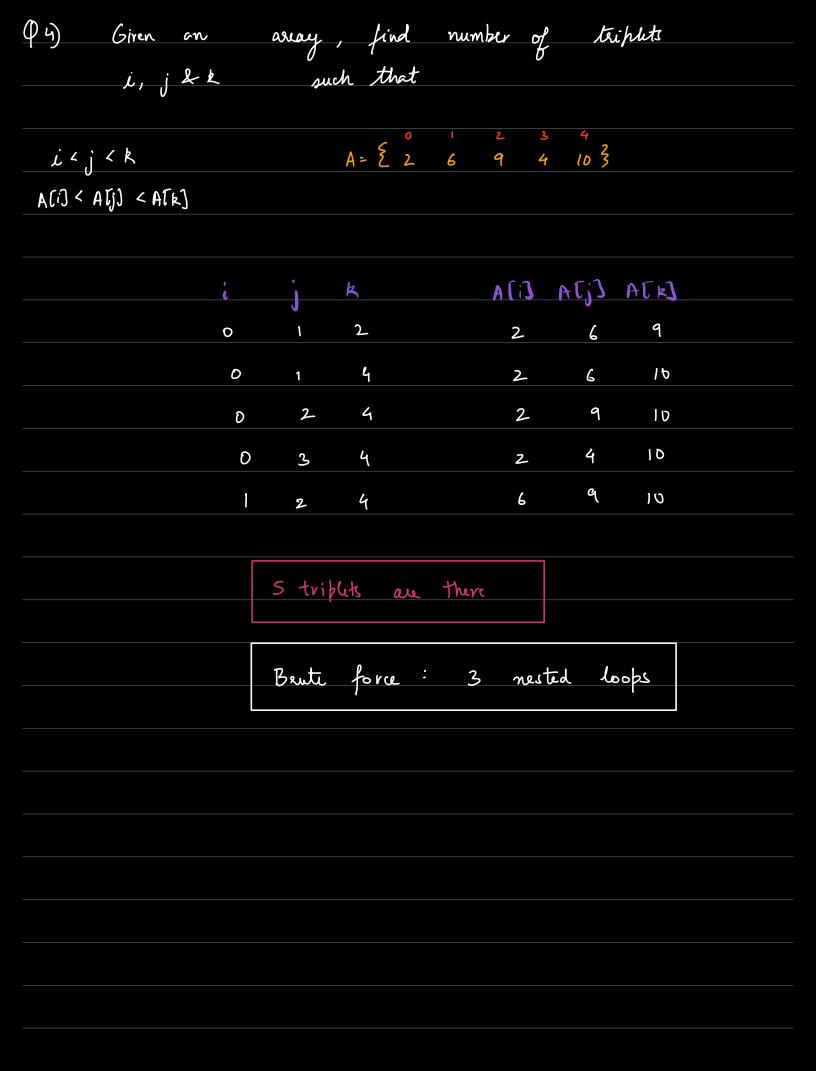
```
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
       A = \( \frac{2}{1} \) 1 1 8 1 1 0 1 1 1 1 1 0 0 1 1 0 1 \( \frac{3}{1} \)
                        1-> 3+2+1
                           2///4
               0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
       A = \( \frac{2}{1} \) 1 1 0 1 1 0 1 1 1 1 1 0 0 1 1 0 1 \frac{3}{1}
                               7 -> 2+4+1
                For any zero repland by
obs:
         Count of consecutive is = no. of consec is on left
                 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
         A = \( \frac{2}{1} \) 1 1 0 1 1 0 1 1 1 1 0 0 1 1 \( \frac{2}{7} \) \( \frac{2}{3} \)
                                 1 1 0
                                                  0
                                           L=2
```

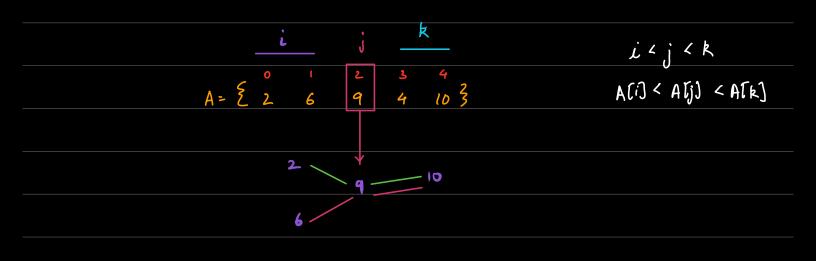
2=0

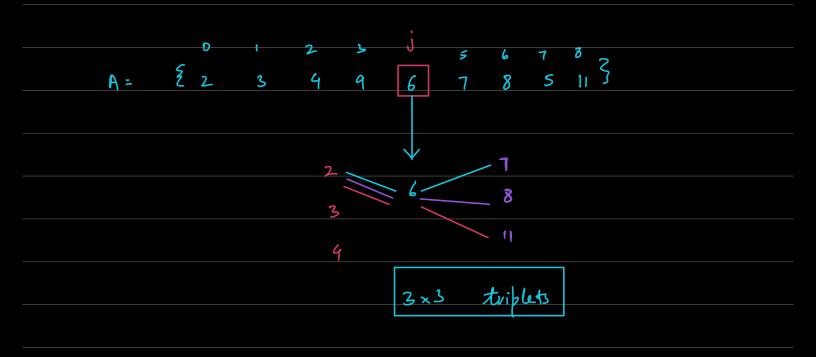
```
Consect max = D
for (i=0; i<N; i++) {
    if (A[i] == 0) {
          # count consec Is on left and right
           for(j=i-1;j>=0;j--){
              if (A[j] = -0) {
            for (j=i+1; j<N; j++) {
               if (A[j] == D) {
              consec 1 = 1+2+1
              consect max = max (consect max consect)
    if (consect man ==0) & return A.size()}
    return consect man
```











A = \(\frac{0}{2} \)	6	2 9	3 4	4 10 3
<u> </u>	ı	2	1	4
<u>r</u> 9	2	1	1	0
ans:	 ×2 = 2]×2 = 2	1	<u> </u>

ans = D

TC: 0 (N2)

for every inden j

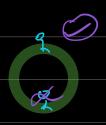
L=0 i: j-1 →0 if (A[j] > A[i]) L++

R=0 $K: j+1 \rightarrow N-1$ $i \neq (A[R] > A[j])$ X++

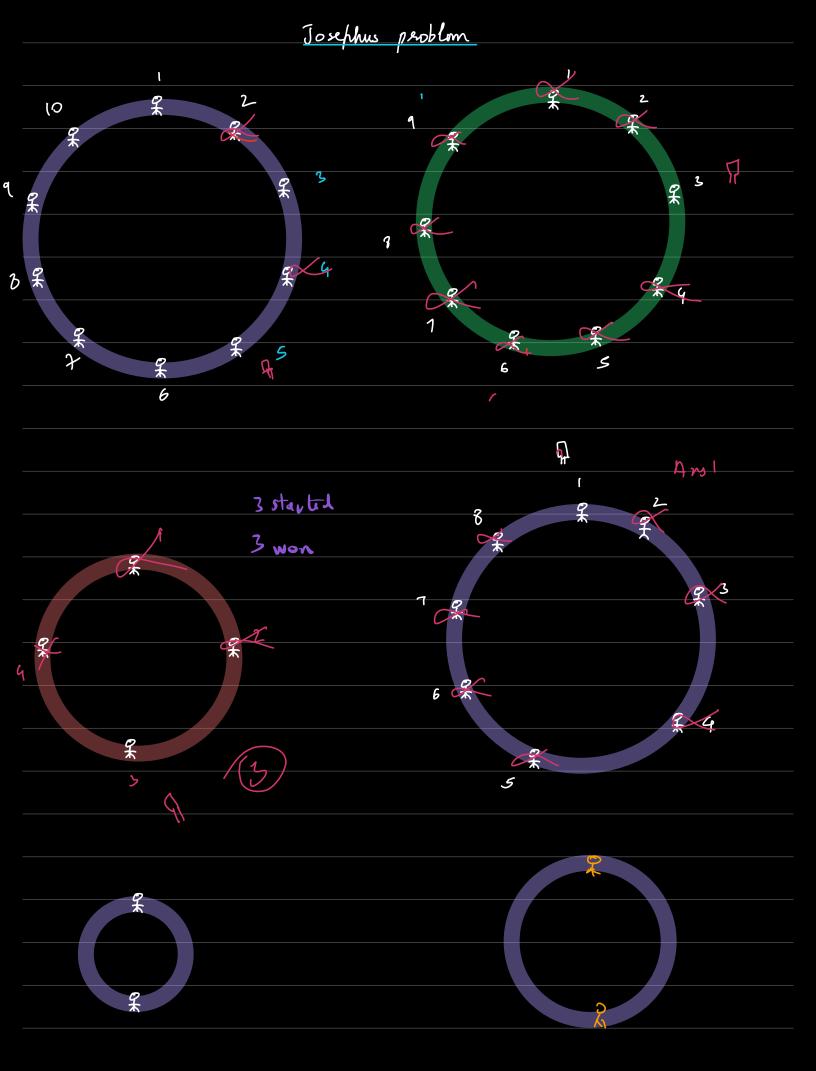
ans += 17x

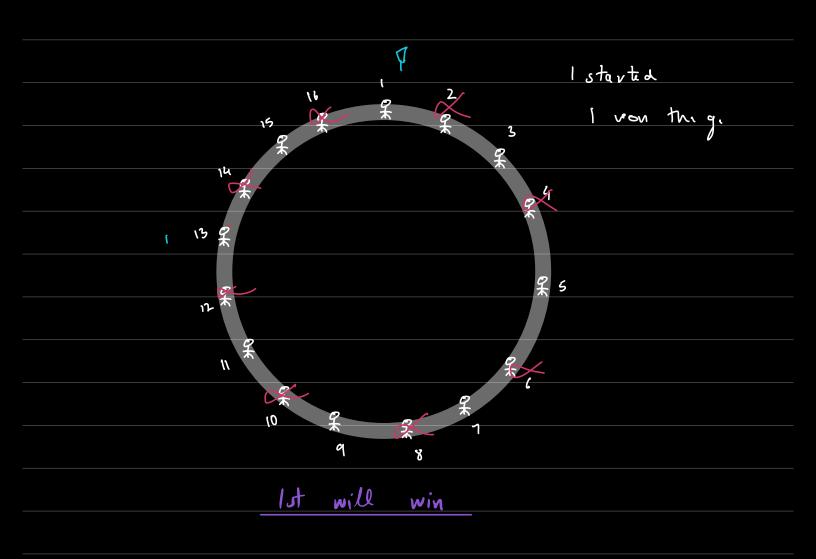
return ans

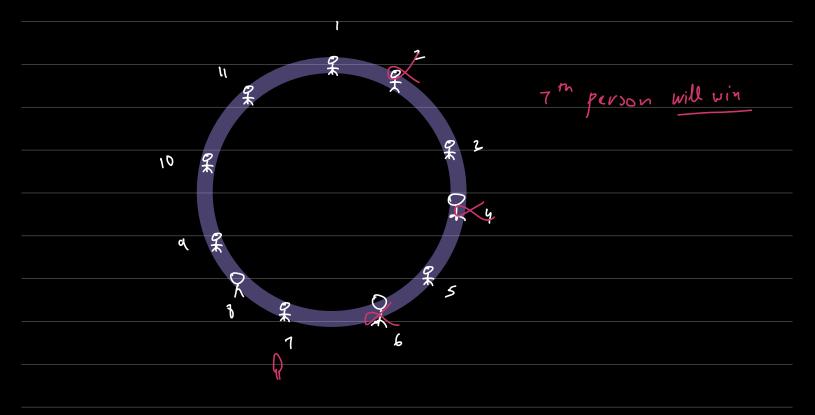
Breck (10: 20 - 10:30)



Tosephus -> Tewish soldier







when	N	i٤	a	Pon	vev d	2	
	who cver		sto	1	the 7	gami	พ่าง
						0	

N	No. of people killed before 2"	Winner
17	1 -> 16	3
12	4 → 8 Aliva	9
67	3 -7 64	7
133	5 -> 128	11 m (2kills+1)
13	5 → 8	11 (ZKiti)
147	197-128 -> 19	2×19 tl = 39

Return Zxkills +1

Rapid firm

x number of setbit from inden B

[4,x]=9

