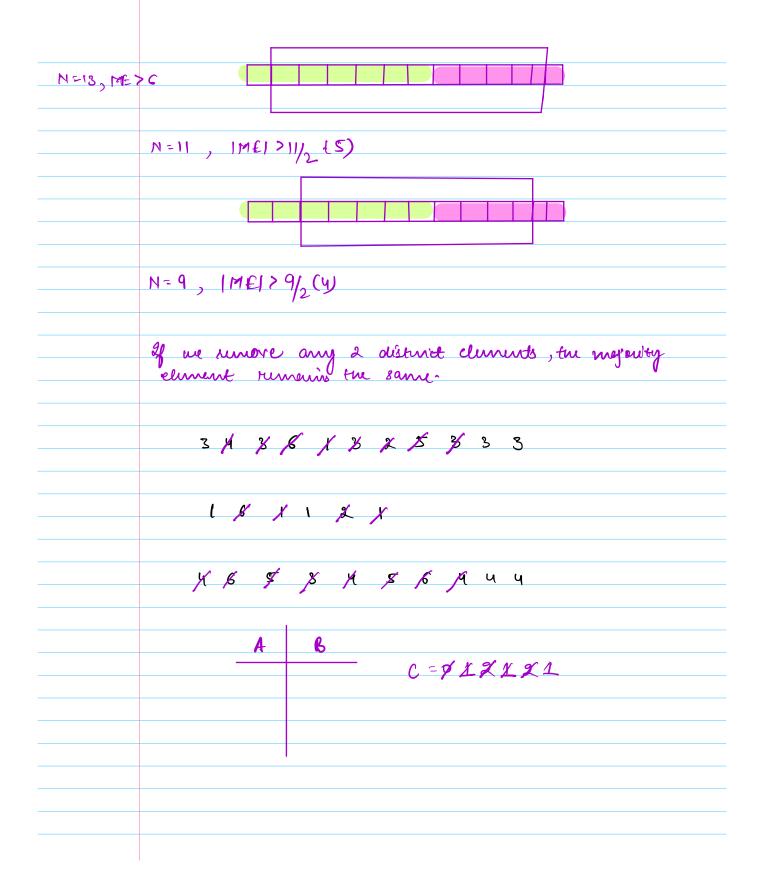
18/10/2023	Interview Questions
	(0 ² = 2 ¹⁰
	I see -> 108-109 sterablers
	10 6 10 6 10 6 10 6 10 6 10 6 10 6 10 6
	$N \leftarrow 10^6$ $O(N) \rightarrow 10^6 \times 10^9 10^3 \times 10^3$
	$N <= 10^6$ $O(N)$ $\Rightarrow 10^6 * (10) 10^3 * 10^3$
	0 (N log, N) > 10 x 20 2 2 x 107
	<u> </u>
	N C-20 O(N)
	0(N ²)
	$0(N_3)$ $0(N_3)$ $0(N_3)$ $0(N_3)$ $0(N_3)$
	0(2N) -
	O(N[) x
	<u> </u>
	lo.
	N <=1010 0 (N) X
	0 (log N) ~
	N <=10 ¹⁰ 0 (N) X 0 (log N)
	O(JN)
	$2^{\circ} \approx 1024$
	(0°00) = 2°0)
	1B -> KB -> MB -> GB -> TB
) 10 ³ > 10 ³ 10 ³ 3 (0 ³
	(1) (1

<u> </u>	Given an away of 180. We can suplace one of the owith a 1. Return the count of max consentive
major	Is in the arran:
Adokt	Is in the away.
taset	Ex-> 110110111, Ans-6
	2 +1+ <u>2</u> + 1 + <u>3</u> 5
	· .
	Ex → 0 1 1 0 1 1 0 1 1 0 , Am = 6
	11101101110011011
	for every 0 ni the away:-
	for every 0 ni the away: Count no of consecutive lo en left → l
	- Court no of consecutive 1s on right →r
	- y (ltrt1 > ans) { ans = (trt1}
	Edge core: - Ef all are 1 (no 03)
	IIIII, aus = len (A).
	0 0 0 0 0

for (= i-1; j'>=0; j	g= (-1) j'> =0; j-	-)
----------------------	--------------------	------------

for (j= v-1) j'> = 0; j)
for 670 to 6-1) E
y (A[v] == 0) &
$\begin{cases} \nabla V & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = 0 \\ 0 & z = 0 - 1 & z = $
if (A[i] ==0) & 6
7
for j' → v+1 to (n-1)
if (A[s]==0) { }
break;
am = max (ans, (+x+1);
7
}
01110110011011
every element is getting accused at man 3 times.
· · # cterations -> 3 N
7e: O(N)

Q	Criven an away of 120. We can surap one of 0 with a L. Return count of max consecutive 10 mi
	a L. Return Count of max consecutive is in
	the away.
	Ex -> 110110111
	11011
	Calculate total court of 10.
	for every 0 ni the away: Count no of consecutive ls on left → l
	ternt no of minerarile is an eight -> 0
	- Court no of consecutive 1s on right →r
	· ·
	- count = { lth if (ltw = = total count of ls
	Ctrt1 y (ltr) < total count of 1s.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	aus = max (aus, count).
	O 0 1 1 1 0 -1 1 1



	OP: PP PP PP PP
	RP: \$ \$ \$ 6P: \$ \$ \$
	Hunney: fp OP 40+28x4x LO
M E Court	3 4 3 6 1 3 2 5 3 3 3 3 1 2 3 XØLO LO LO XX3
	Moore's Votnig algorithm.
ME Count	1 × × × × × × × × × × × × × × × × × × ×
ME	4658456444 4658456444 4658456444
	X X X X X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z

You are given a 20 miteger matrix A, make all elements m' a row or column zero if A[i'](j]=0 (make i'th row & j'th column as o) (+ve mitegers) 200 5670 0000 * 0000 9204 2 3 4 -10-10 => -1 0 0 7 0 -1 -1 -1 -10 -1 1/ 0 0 0 7 0 0 0 for in 0 to (N-1)

for jn0 to (M-1)

y (A[i][j]==0) { for (k=0 to (M-1))

of (A(i)[j] 1 -0)

A(i)[j] -1

for i 0 to (n-1) {

nit flag=0

for j=0 to (M-1) {

y (A[i][j]:=0)

flag=1, break; NOM THEM OCN*M) Sc:0(1) if (flag ==1) { for (j=0 to (M-1)) if (A(i)(j] 1=0) A(i)(j] =-1 Lows j > 0 to (M-1) [for J= 0 to (N-1)

if (Ali)(j] ==0)

flog = 1, blak; if (flag: 1)

for (j -> 0 to (N-1))

if (ALi] (j 1 1 20)

ALIGI = -1)