Today's Content:
-> learseting in losted Array
→ lqrs+
→ Ath Magical Number.
-> Median of Tura arrays.
Today's Onote.
You have to pick something big to work upon,
because its haved to commit your life to something small.

2	selents our distinct
Ques	Leauch in a Lowed but
	sotated assury.
	9 4 9 10 10
	9 4 8 10 15
	k=2
	15 2 4 8 10
k = 2 =>	10 15 2 4 8
	1 2 3 4 5 6
	if array is sotated
	β (Σ - π) $A < \Sigma$ α)
	3 eise &
	5.8



Bruse force: Do lineau Leauch

T.C. > Own

S.C. > O(1)

99 Jougest elementida is given, P,
apply B.S. (0,P), (Pa), mai)

Tourst: - Longest elevet idx is not given.

find local marring wing b.b.,

then, $\rightarrow B.L$.

the apply B.L in both parts.

Twist: - Do it in One 3.8.

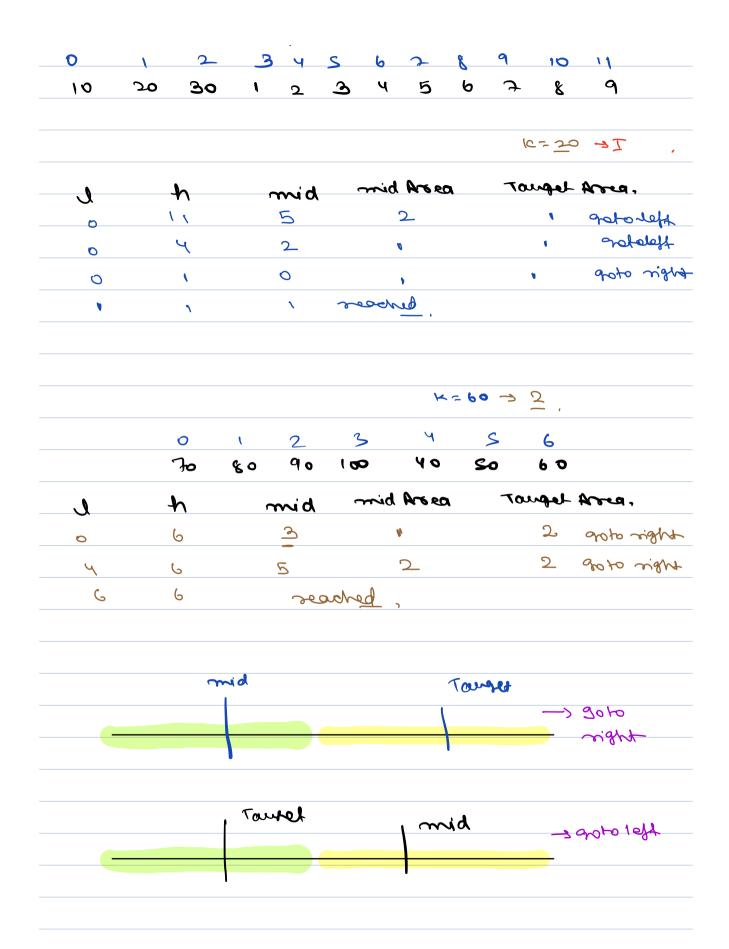
1 2 3 4 5 8 10

TT

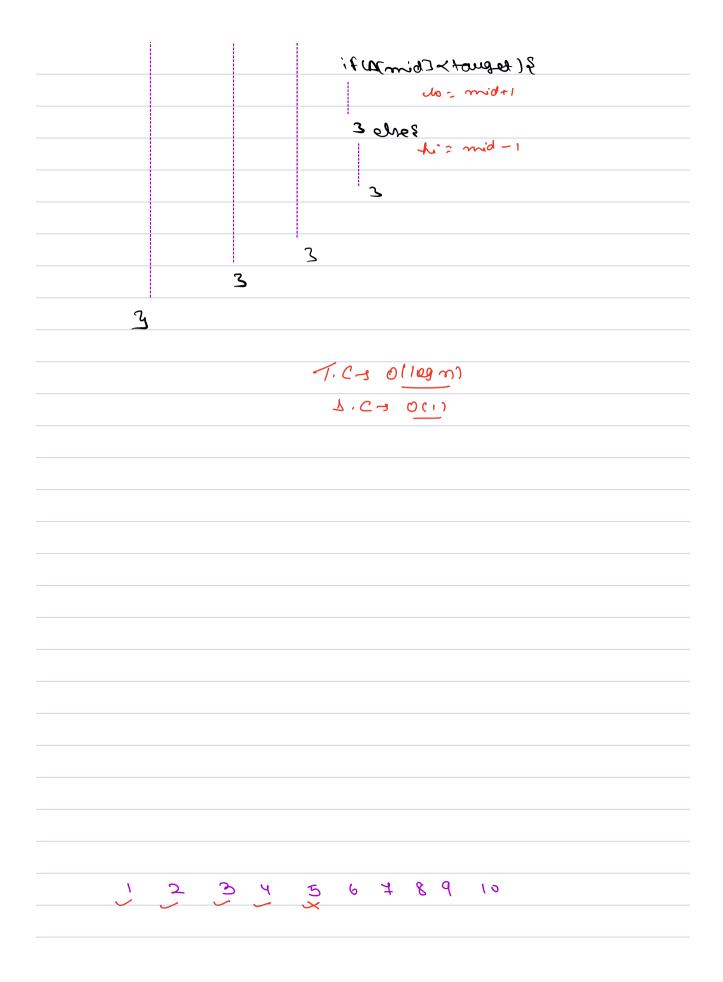
1 2 3

Pant > Part 2

×, (x<0th element) {
Port 2
======================================
lour 1
13
get Mid, tind in which paut our
middle is and in which pour,
L' toppet sus
if both are in different parts
we'll move mid towards the
tought, elle apply normal Big

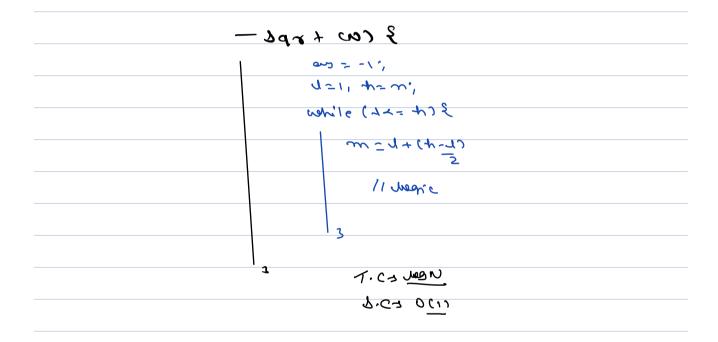


J-0, 21- m-1; 3 (re => l) slideu (4-16) rl : bim 3 (Legred == [bim]A) 7; velen mid. 3 if (touget < A(0)) & (I touget Part > 2 if (A(mid) >= A(O)) & 11 mid Port >1 10= mid+1; 3 else { 11mid = port 2 3 (terust > Thim TA) bi 61 m 3 else & 11 tanget pant - 1 if (Armid) < AroJ) & 11 mid Paul & hi = mid-1 else \$ // mid pout 1



	Light last
4qr4 (25) = 5	-3 June 1997
29x4 (20) = 4	3.8 :-
Jart (10) = 3	Seaveh Space -> 1 to N
1.C30(50), 1.C30(1)	Touger > floor (sqretco))
i = 1', ons',	
while (it i <= N) &	Case-1 mid+mid=w
aus = 1;	bin nevleus,
````\``\	case 2: mid = mid > N
	किए जि
	QeB: mid & mid < N
	ope right
N = 70	<del>_</del>
1 2 3 4	<u> </u>
	× × × × ×
	8 9 10 11

	N=50 =		ens = x t
J	<b>→</b>	M	
•	50	25	25x25>50 900 1eft
<b>\</b>	24	13	12×12 >50 goto left
<b>\</b>	V V	6	6x6<50 90000194
オ	11	٩	9x9>50 coro 18ft
7	४	7	オオナベラ ロンニオ
8	8	&	for orac 02 < 8 x 8
8	7	preok !	,



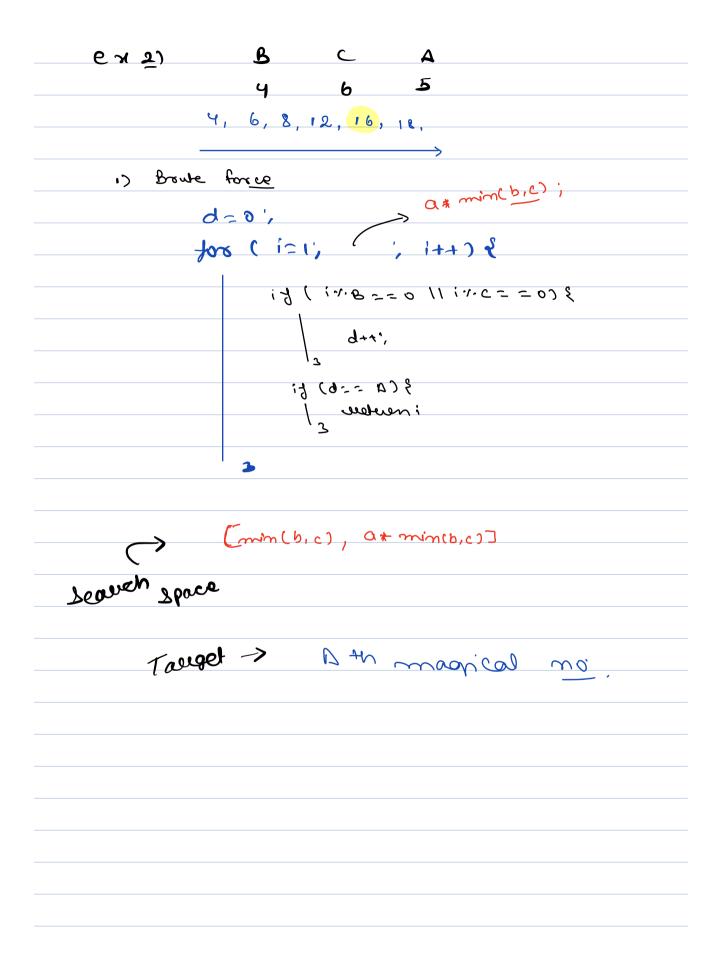
## 8:06 am - 8:16 am

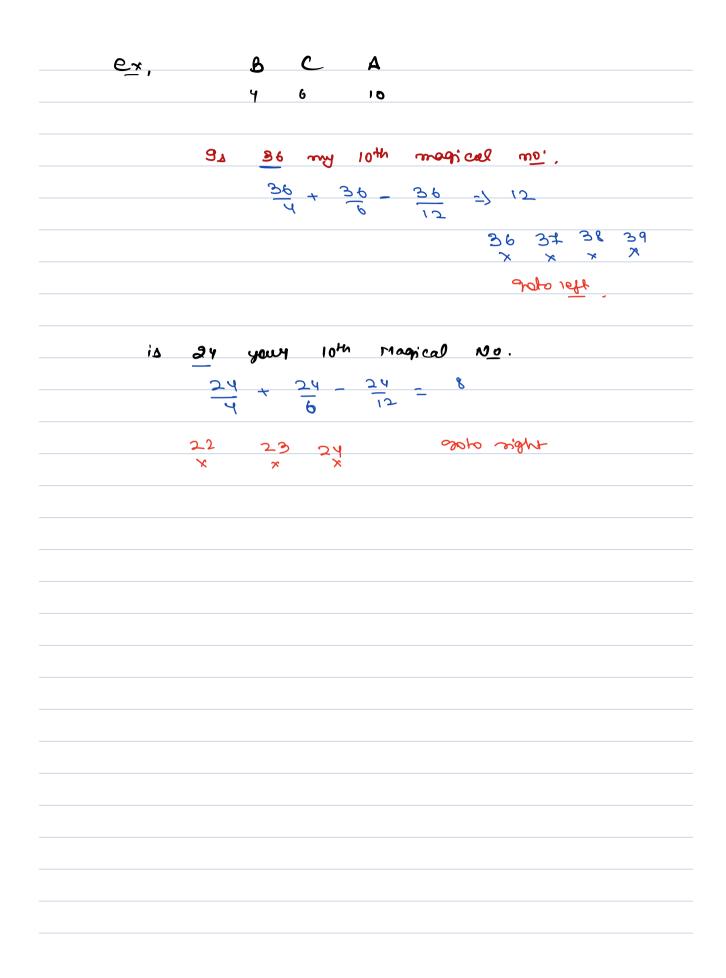
Ques ushy not ternary Jeanch? doubt benjon

Ath Magical Number multiples of 3 -> [1/00] 100 333 4 from > [1 100] => 100 6 from [1 to 100] => 100 = 16 4 001 6 from [1 to 100] => 100 + 100 - 100 = ----4 8 12 16 20 24 · · · no, of multiples of b from 1-3 31, Ques. A, B&C -> Ath Magical No. 4 A no is said magical if it is diwible by B 04 C.

9 C A
2 3 8
2, 8, 4, 6, 8, 9, 10, 12, 14

e .9 1)

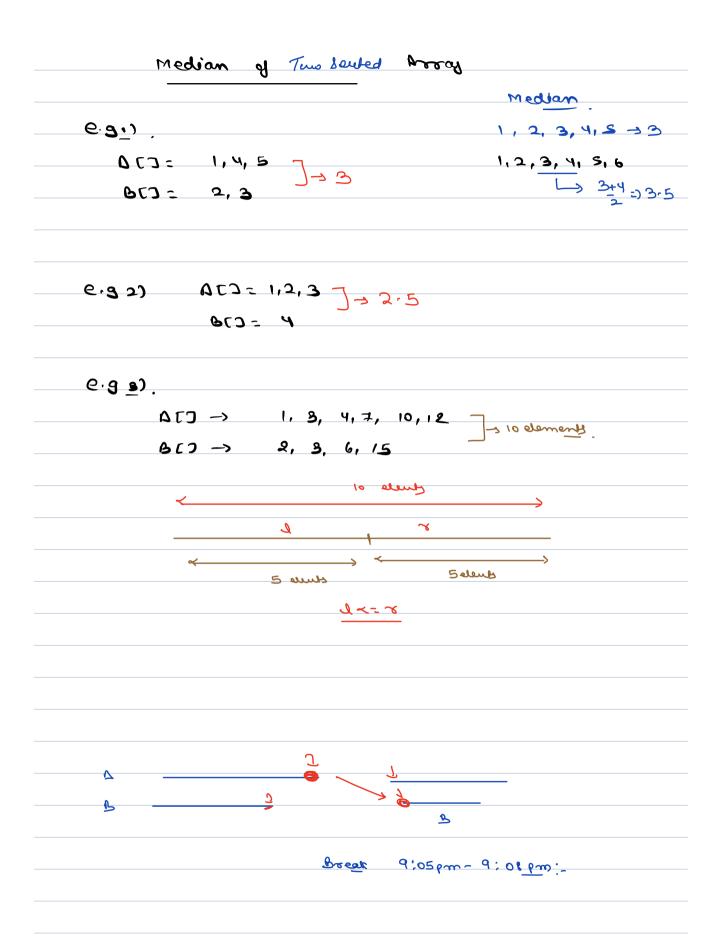


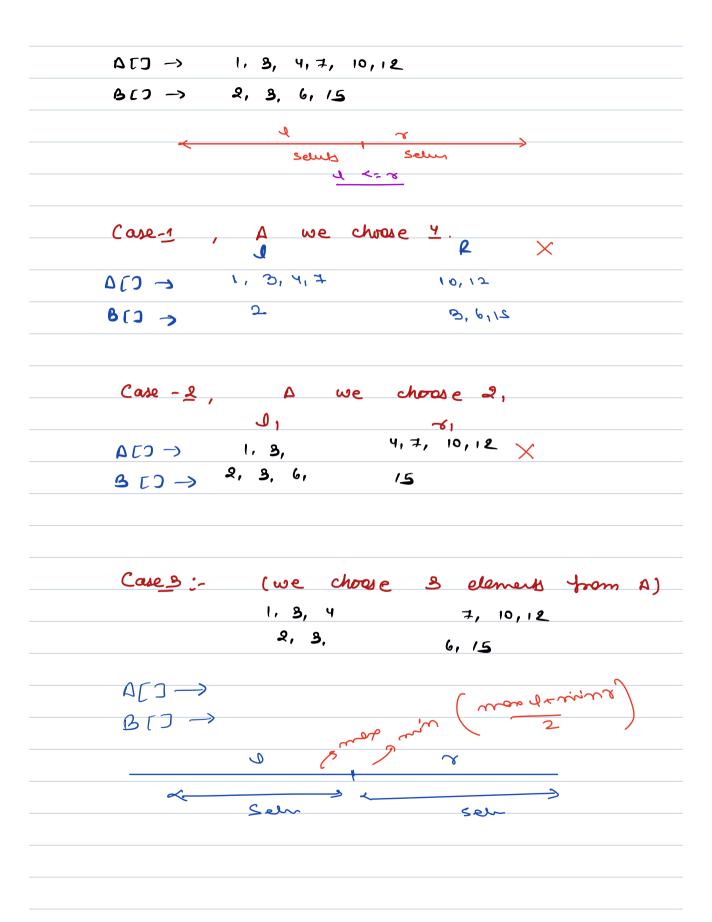


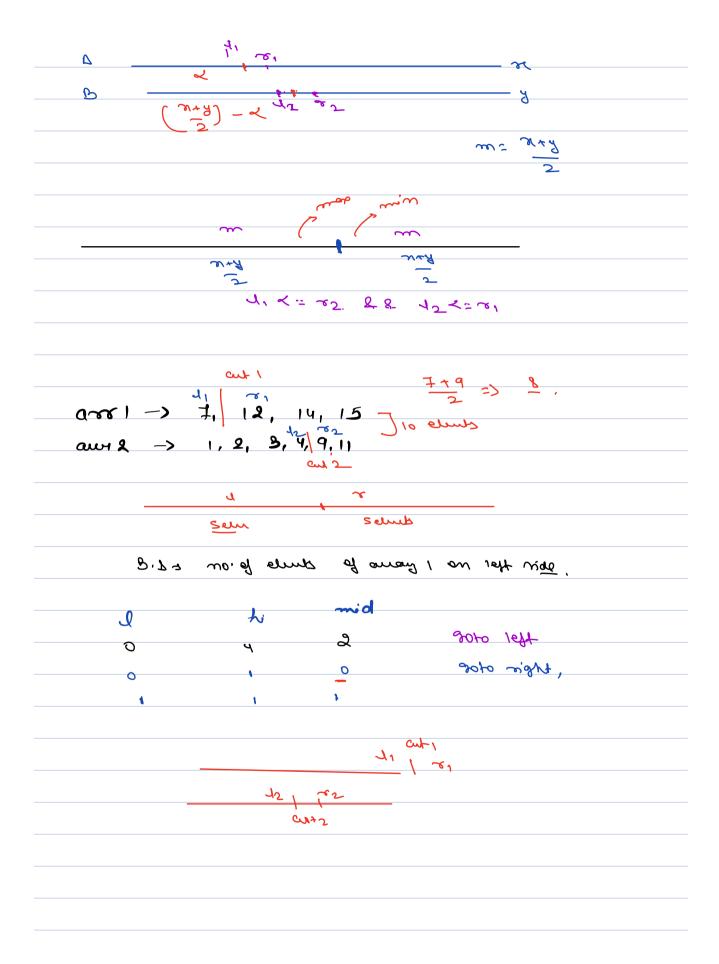
Tracing A C В 5 ч か Jo mid 12 5 20 13 20 16 goto left 13 14 15 anoto reft 13 13 13 noto right 14 13 Break

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

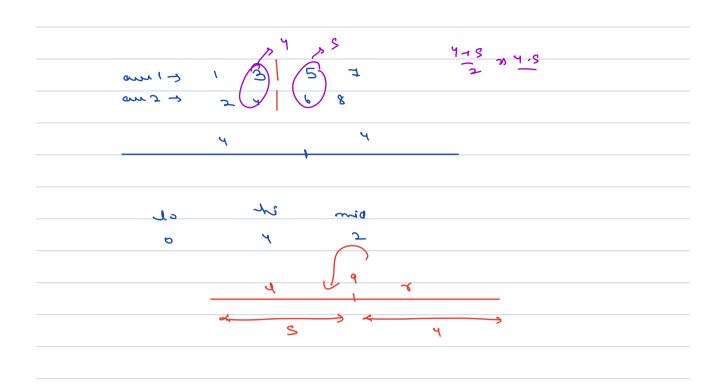
P2 01	do codo .	FCW(x,A)=	Xxy
Dth	Magical 100	o' 4, 6, C) {	Sed (xit)
-	m - al	in B, c);	
		* min (b, c);	
	dem =	Jam (B, c)	
	while (J	s <= 4i) €	
		m = Jo+ (hi-Jo)	
	,	ut co = m + m - m	<b>(b</b> ,c)
		3 (4 > 0) 7;	
		J=m+1	
		(a < 0) bi sals	
		hi = m-1	
		3	
		6,16	
		es-m,	
		4= m-1	
		<b>`</b>	
	1		
	_ 	en as,	
		,	
	3		

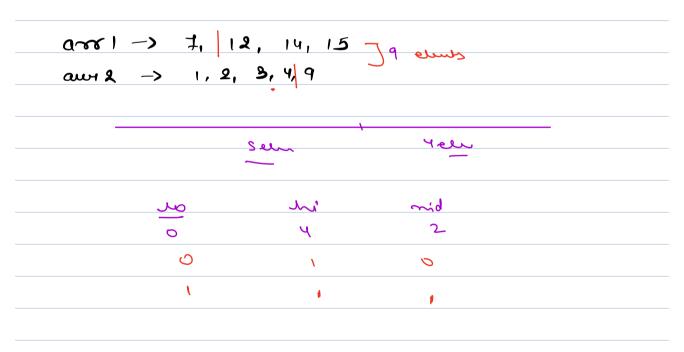


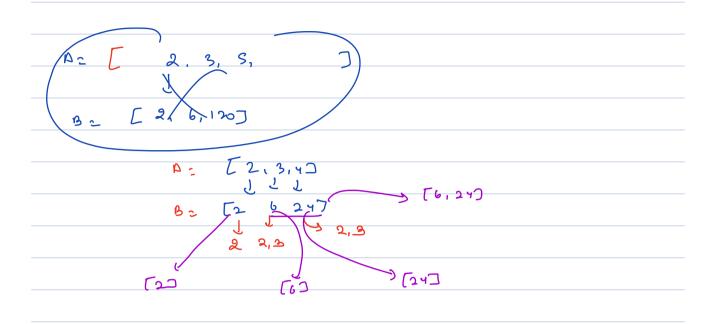


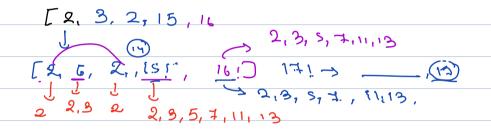


	musi <= musz
find Median (	int [] news 1, int [] nems 2) &
) };	mous. Size < many 1. Mise()) &
3	( (12mor, 5mun) noisborn know muller
int r	1 = nus 1. length;
int n	22 nuns 2. length",
ی مال	٥٠ <u>,</u>
4, -	$\mathcal{M}_{\mathcal{A}}$
y+ L	mas = (21,225+1) 5.
white	) ( int =>al) 9
	( al _ 1) ral = bim
	cutic mid',
	cut 2= (m,+m2+1)- cut1',
	d1 = auy[cut1-1]) \$ 1=-00
	d1 = auy[cut1-1]), 3
magesof = 11/4 215	d2= aug [au2-17] → au2==0;
٩	91: en/(en/13) -> 1/2 en/2=2
m m m m m m m m m m m m m m m m m m m	25 = am ³ [ cm ³ ]; ig cm ³ == 2
10 ds ws	19(7/4=25 8845 4=21) 8
	( (J1/12) + Min (7,172)
71.2 = = 5	3
id ( (U) 4 US) 1. 2 = = 0	(J. 12) / else if (J. 782) {
if ( this now the	no left;
<u> </u>	elne (
	Jo = midq.1
	وا
	13











13 14 18 14, 19, 20,21,2223