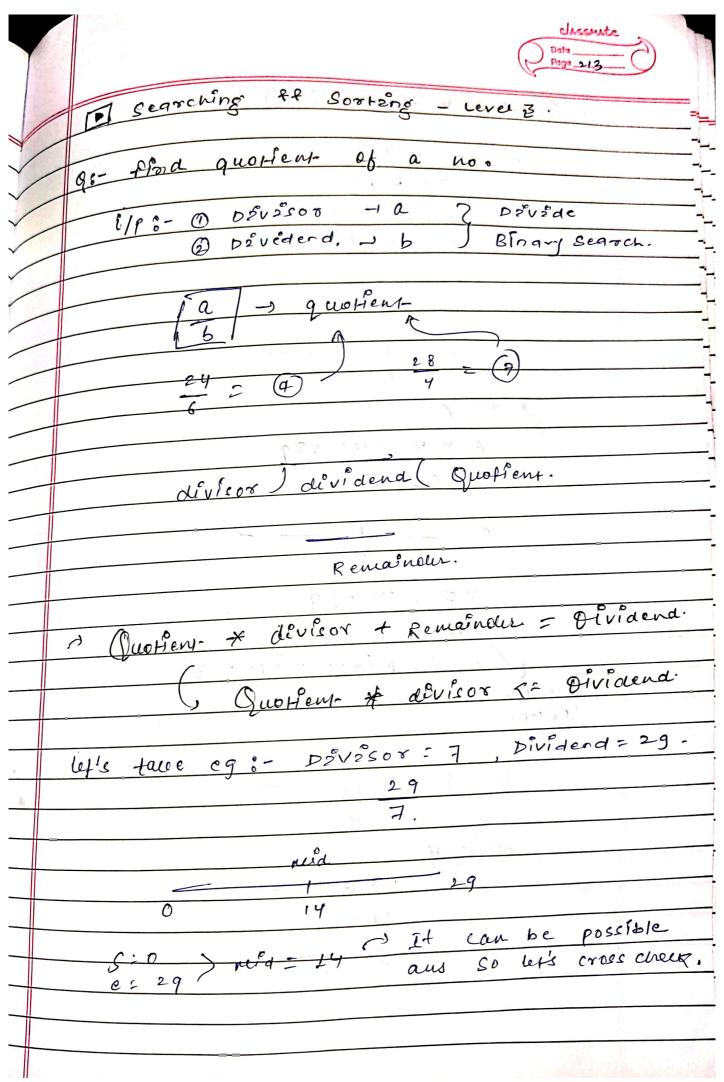
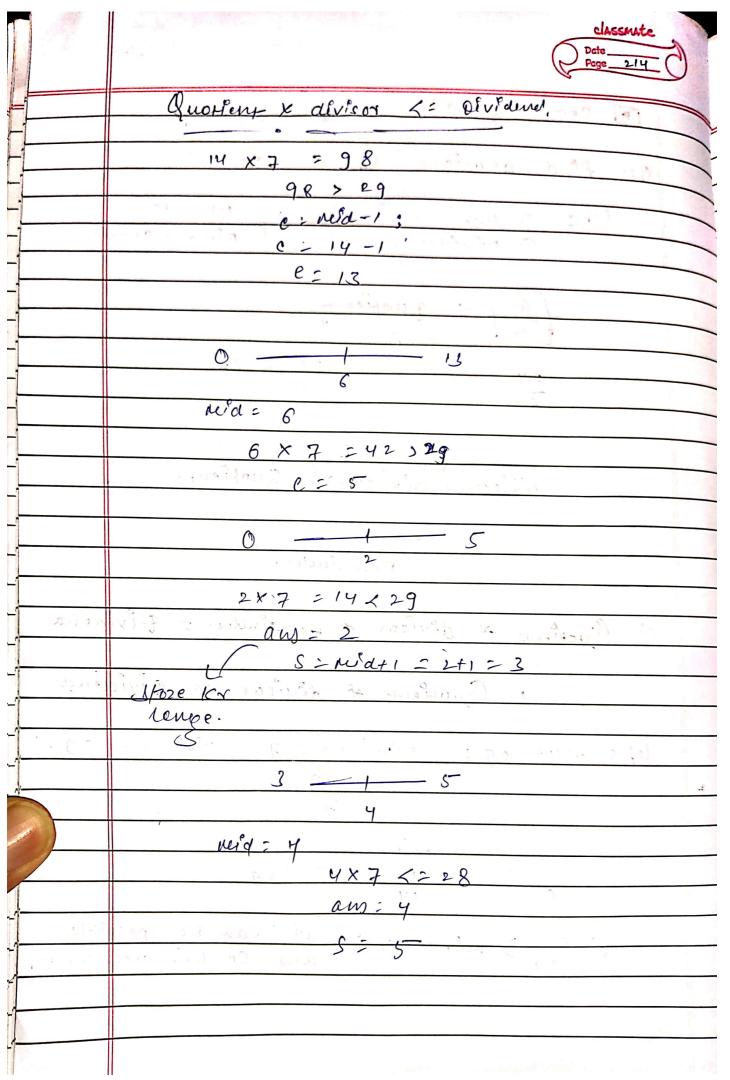
P	isfe by mistage. (searching to pate)
)	Binary search on 20 Array.
	Binary Search 511 6 1 2 3 1 10 12 14 6 8 — Sotered 1 D in actually 1 1 10 12 14 14 2D → LD 2 18 20 21 24
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

	(ode bool-segretalquix (vector/fax
	bool search matrix (vertor Krector Kint>) & matrix,
	Int target) &
	Ent row = matrix osizers;
	int Cal = matrix [0]. size();
-	int total = row x CRL;
	ln- 5 = 0;
	ln- € = total -19
	helice Ls<=e) {
	in- wa= (s+e)/2;
	int you Irain: mia/cel;
	int colloden = ouid y. col;
	ent marflement = matrix [row Prodex] [colledex]
	file Company of 101 102 1 weeturn true;
	ét (cursement = 2 target) uteturn true; else it (currement > target) e= mid-1;
	else if (curvelement) targer) es
\parallel	ilse S: mid + (;
-	to the second of
+	return false;
+	<i>J</i> .
\parallel	Mine (puplesity: - O (log v)
+	Space complexity: - O(log v)
+	
- 11	

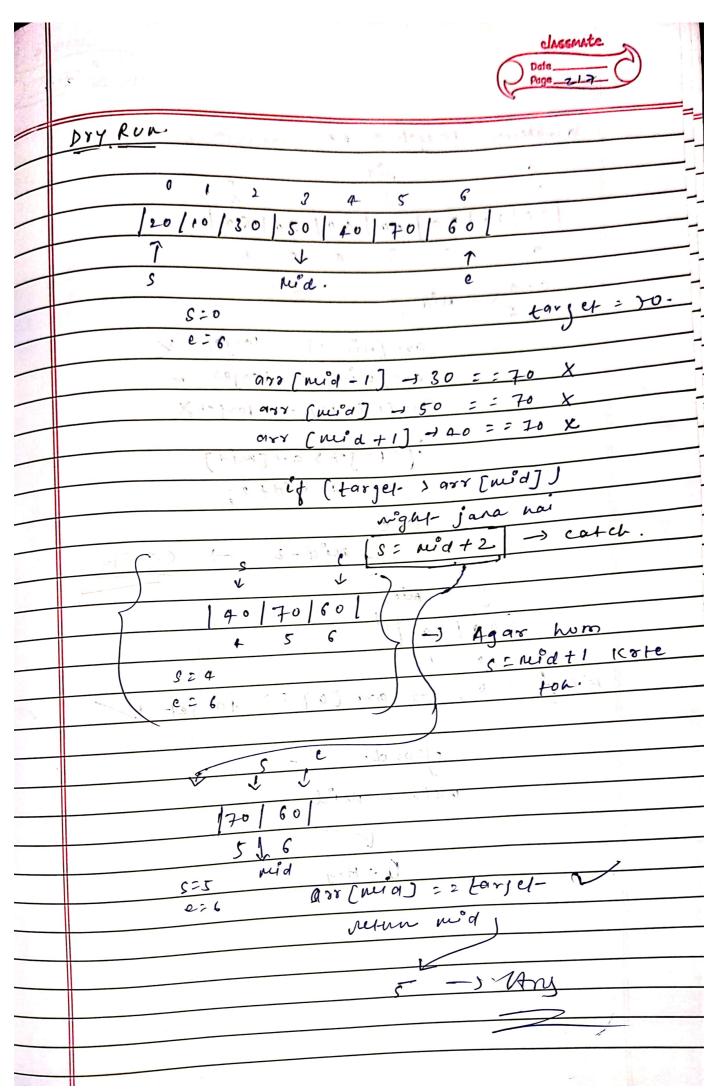






	Classmate Date Page 215
	The first in first war warm
	5 5
	Jost garage to
	mid= 5
	5×7 >35
	e = -61
	Hre
	e>S -> Loop Break.
TIF	M. Friends secure or measing scaled was
	Code
	(a,b,b,a)
777	int Set Quotient (lint dévisor, înt divident) &
	îvy 5 = 0;
	lux e: dévident;
	Ent aus: -1;
	achité as Ries son la
	Ent mid = St (e-1)/2;
	Et (mla + dévisor = 2 dévident) return mid;
	else if (mid & divisor > divident)
	e'= avid-1;
	else s
	ous = wed ;
	- ports 60-100 pl-80= widtite bolled Johnson
	(misself) (misself) (misself) (m)
-	3 - 1 - Contractive Coperation
-	regush ars.
	main () { - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	lux dévisor = -7 dévident = 28;
	ins re: Getquotient (abs(divisor), abs (divident));
-	if ((divinent < 0 ft dévisor > 0) (divident > 0 ft divisor < 0))
	122 - 0 - 1111 °
	Cont << " The quotient ls: " << res << end 3.
	Scannot with CamScannor

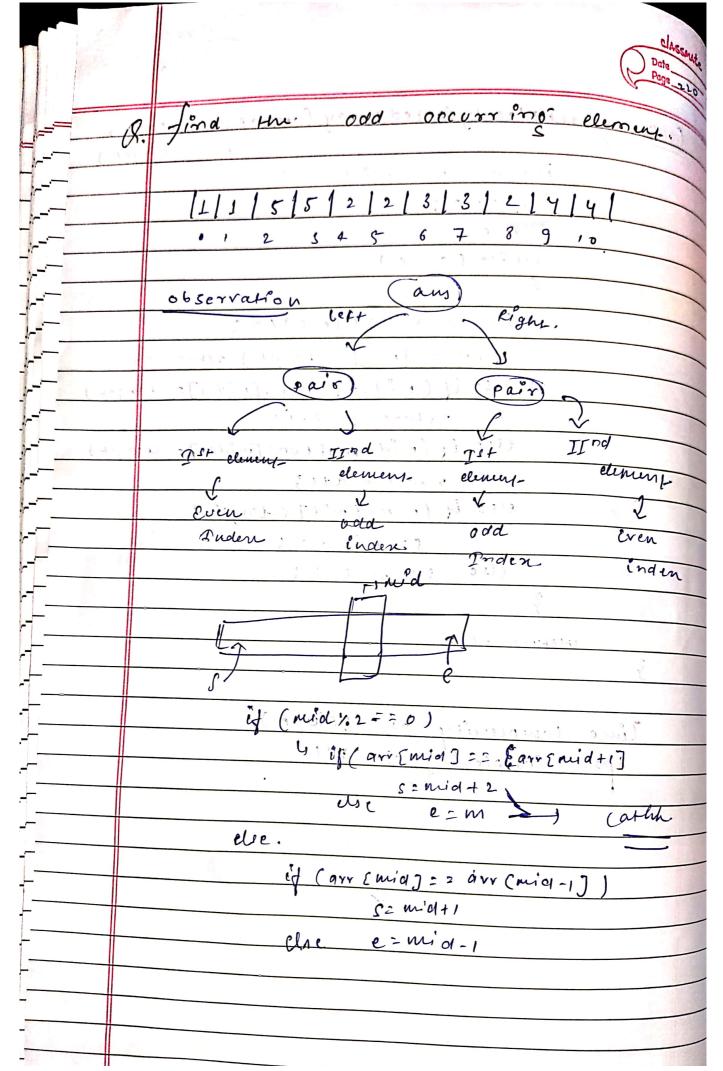
		Classaute
		Page 211
		en Binary saarch.
	Quist ous	- We VIII
	- classes	al
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<u> </u>	- predice	ate finition
H	Enden	, -) (10910
H	3 7 2 2 3	
1	D. Coareh	on nearly Sorted Array.
	Bénary Search	350
	Sosted	
	Norray. 110/20/301	40 150 80 70]
	0 1 2	3 4 5 6
	Nearly	
	Forted 20/10/30/5	0 40 70 60
_ -	Array, 0 1, 2, 3	4 - 75 - 6 - 1
- ; ia' ,	ar her false minister in	Sold Wallet Williams
	value may	
	, 1 * 3 x :	-) î- <u>1</u>
		3 i+1.
		Mearly sorted Array.
<u> </u>		(f(arr[mid-1]== target)
	target)	return mid-1:
1		it (arr [mid) == target)
	-> if (target > avr(mid))	return mid;
<u></u>	Li Rigui-	if (arr [mid+1] == target)
	else Left.	of (target s arr [mod]).
<u> </u>	(correction)	Ly Right
		es e
		to Left.
		Scanned with CamScanner

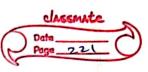


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	Date
	Page 218
===================================	
-	another tayet = 20
H	c wa
<u></u>	120/10/30/50/40/70/60/
	0 1 2 3 4 5 6
	2
- O-	e= 6 > -> ma= 3
	laxial 1
ļ_ -	arr [mid-1] == torjet X
	ar [mid] == tarjet x
	arr [wid+1] 2 2 torget X
	A V VI CONTRACTOR OF THE PROPERTY OF THE PROPE
	of (tarjet > arr [mid)
	Y CC TY
	l [sind con 2 deg : S = mid+2;
	else
T_LL	e=mod-2 -> careh
4	S here
J-	
<u>_</u>	med /20/10 / 3 2 3
946	141600 - 50 1/
-[mid= = = 0+ arr [0] = = tarjet
<u>_</u>	2 tus jet
4	
	Jound.
	return wid
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_\-\-	0 -> Ary
J-	
ļ	1 1 a - a - a - a - a - a - a - a -
1	
4	
4	
J	

\parallel	Code, Search Nearly Sorted Array (vector Lint's frums,
-	in drarget
_	înt n = nums. sizel) -1;
	: Eat 5 = 0 ;
•	inte=n;
	while (skie)
_	· · · · · · · · · · · · · · · · · · ·
_	int mid = 5+ (e-5)/2;
	if (nums [mid] == target) return mid;
_	else if (mid>0 ft noms [mid-1] == +arge
	$\alpha = 1 + \alpha = 0$
_	else, if (mid< n 44 nums [mid+1] == +arge
_	return midti;
	else if (numc[mid] < target)
	5/10 00 1 0 mm 2
	2 2 1
	3
	meturn -1;
-	3
_	
_	Time complenity > Ochogn): 8 pace complenity > OCI)
_	space Complenity 7 001
_	
	200 miles 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	. 109
_	1 (1-10) - 10 x = [10 x x] x x x] }
_	1 + 19 - 3 - 9
_	1 = 10 +240 = 3 = 3 . 13
	(= 10 ****)
•	The second of th





Page 221		
Code Oddoceursinoflement (Vector Lints would)		
es s		
int n= nums. size ();		
ent e=o		
ûnt e = nums, size(1-1;		
wwie (s<=e) {		
if (s==e) return s;		
int mid = 8+(e-s)/2;		
ig (mid 41)		
Ş		
if (mid>0 ff nums [mid] = = nums [mid-1])		
 S: mid+1;		
 Usc e=mid-1;		
ર		
 else		
S		
if (méd + 1 < n 4+ nums[mid] == nums[mid+		
s:nid+2;		
else e=nid;		
else e > max,		
3		
9		
7		
 100 D(logn)		
Time complenity: 0 (logn) space complenity: 0 (1)		
space complexity :- 0 C.		