0 و ع	Learch	in a	~ o taled	sorted array.
	_			distinct
	\rightarrow	9, 4,	8,10,15	elements.
	k = 1,	15, a,	4,8,10	
	k = 2,	10,15,	2,4,8	, x = <u>2</u>
				, x = <u>L</u> .
	ہ ماصافط			
	-> 2,u,	8,10,15		
	_			
w	wooded		neces 7:	ry 12 rotaled
	_ ,			(だーの)
				<i>3</i> <u>≈</u>
			elne ?	
	Binary	Learch	\rightarrow	No
			13	

45810,23 it largest element idx is given, apply B.L. (0,P) & (P+1 to m-) Truist: - if largest element idx is not gruen, tind 2.6 erim prima hasal &.s 4 5 8 0) than, apply b.s. Hed ni the parts. Turist: - Do it in 1 B.8 5 8 10 1 2 3 y Part 1 > pare 2 the male 100 > x Pan+1

Get mid find in which part our middle is and in which part our target, is if both are in different parts, will move mid towards the target else apply normal binary research



bim	tander
	app rially
Laprox	mid
	ster otors
mid tanger	
	apply Bil.
1=0,	
3 (8=>L) glider	
m= 1+ (21-1	
=- Em 7A) bi	
~ neurlace	<u>~',</u>
if (tauget <	(Aro]) & 11 tauget -3 Paul L

1 Loop = (EoJA = < [birm] A) bi
do = mid+1',
else & 11 mid > Paul &
; of (Armid) < tauget) &
Us = mid+1; eine s
this mid-1
e me & 11 tauget -> Pant_1.
2 Lormin & (EoJA > Ebirmia) &;
hi= mid-1
elne & 11 mid = Paul 1
; g (Armid) < tauget) §
do: m'd+1 2 eine s
th's mid-1
3
3
3
1. (→ o(leg m)
S.C → O(1)

Que	hiven +ve	N, find squt (W)	
_		int paut	
		Yleon (Agrat UNI)	
	(1 (25) —) 5		
	t (20) —> Y		
Jq-	£ ← (01) ty		
		88:-	
I	·, •	Target -> ylon (matum)	
_			
1	(i*i <= N) &	Securety Space -> 1 to N	
	ars = 1 1++	Case_1	
	. ,	mid = N = bim \$bim	
	- 2.0		
2		are-2 mid & mid > N	
T. C-3	0(12)	COLE-B mid & mid < N	
8, C →	0(1)	him = ano	
		100 1181	

	N:50	au:	· = }= _	
J	hi	<i></i>		
(50	25	25, 25750	con our left
h	24	12	12×12756	groto left
'n	1 /	6	6×6 ×50	as = 6
7-	1 [9	9 * 9 > 50	groto lest
	8	Ŧ	オれライ5 0	noto right
8	8	8	8x &>50	more 1est.
8	7	B~ our		
	1 0	رامه س) رامه س		
		50 (108 m)		
	ی د	(3 0111		

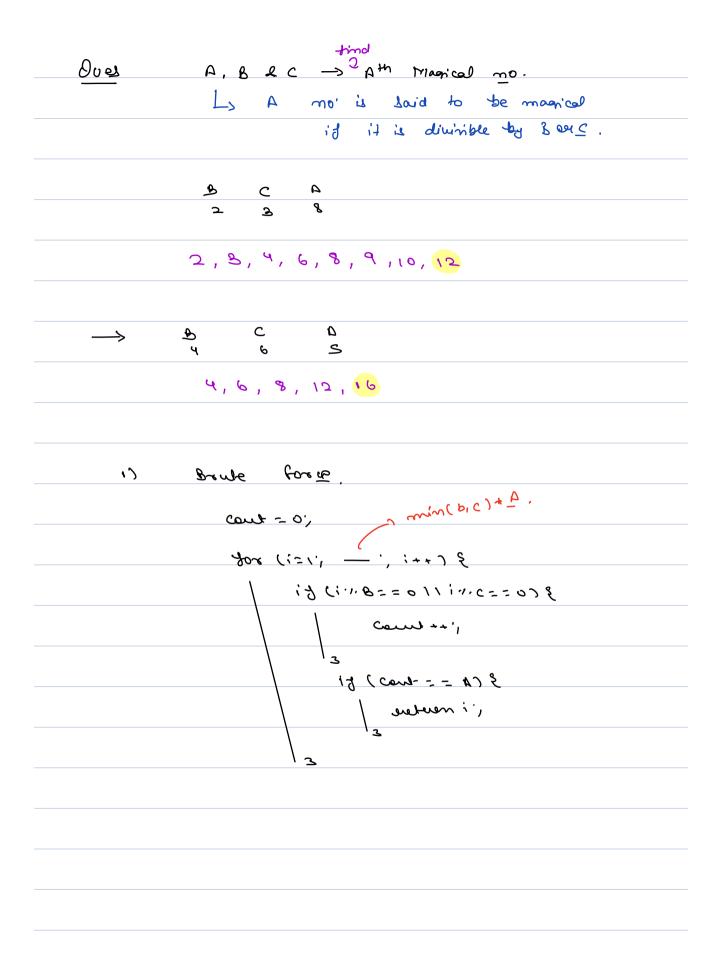
 $\frac{3}{100} = 83$

y from [1 100] → 100 = 25

-> 100] - 16

[cos 1] mort 6 40 P

100 + 100 - 100 - 100



- 1)	Learch 19	ace			
,		<u>, </u>			
	·	[mincbic]		~	
		(110110010)	י מואיאולף	C / * 17 7	
2)	- Legrot	\rightarrow $\rho_{+\nu}$	Magnical ~	nubegi.	
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	17	50 wh	10,, wo	n'cel mo?	
		9	6 3		
		36	36 - 36	z <u>- 73</u>	
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			2	L 27 38	
		لعد مو	ر بر	8	
		70 5-8		<u>'</u>	
	; 4	m 25 1	m Mol p	nagical mo	ر
			O	0.1	•
		2	4 24 _	24 - 8	
			<u> </u>	57 - 8	
			, ,		
			la	~iaht	
			90 W	right.	

Tracing, d, C, A
5 7 4 mid Jo $\frac{12}{5} + \frac{12}{7} - \frac{12}{35} = 9$ meno night, 16 + 16 - 16 = 5 5 7 35 move left, $\frac{14 + 14}{5} - \frac{10}{35} = \frac{4}{35}$ more leff. 13 + 13 - 13 = 9 9000 right break

9-5, C=7, A=3															
1	2	3	4	5	6	7	8	9	10	1 1	12	12	7 4	15	
0	0	0	0	ĭ	i	2	3	2	3	3	3	3	4	5	

Ath Magnical NO (A, B, C) {							
Jos min (4, c);							
hi = Δx min (b, c);							
Jem = Jem (b, c);							
uehile (10 <= h;) ξ							
m= do + (hi - do)							
im+ co = m + m - m							
if (co < A) ξ							
J= m+1;							
3ehe if (co > A) &							
h'= m-1;							
elve &							
-h=m-1',							
3							
vietuen aus',							
3							

T. C → 0 (Jag (min Cb, C)*a)

dues	Median	બ	teus	So	Hed	Arraye
		9				<u></u>
			7	\rightarrow	Most	Znepoward
	1) and t	after	the o	low	-s add	seconding
	2) Nent	ييول	→ 0	Jawsz	العسن م	J