

Foundation Course on Data Structures & Algorithm - III

Doubts:/ 3_ (dans) -> Binary Scarch Carrie (Cotus 1) is cord line that Scarch Space

SP

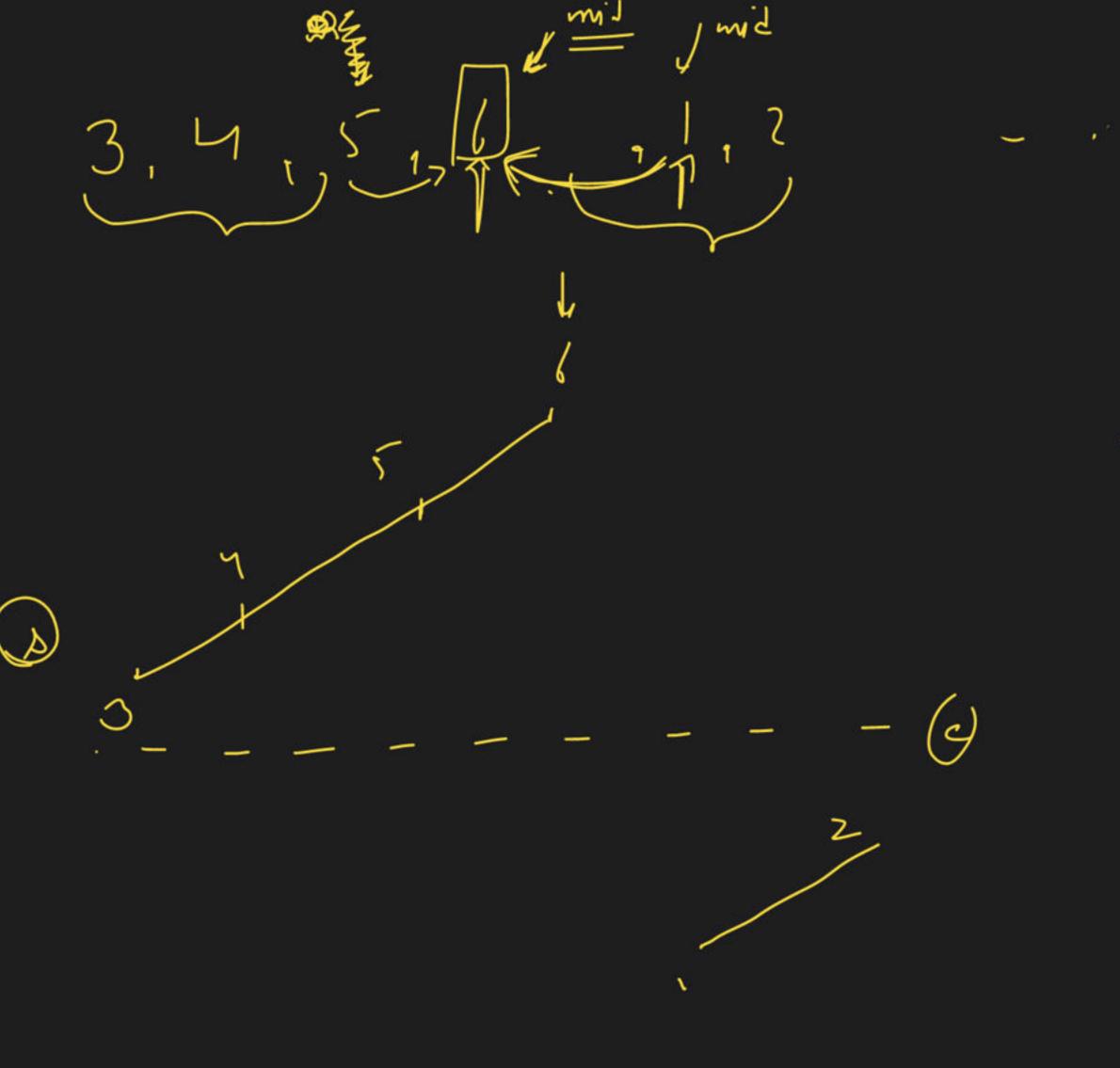
Roting

LVC

LVC -> 1mplement B.5 first / Cant Querina -> total no of Ocurren -> Land - first 17 fixed point (Nature = index)

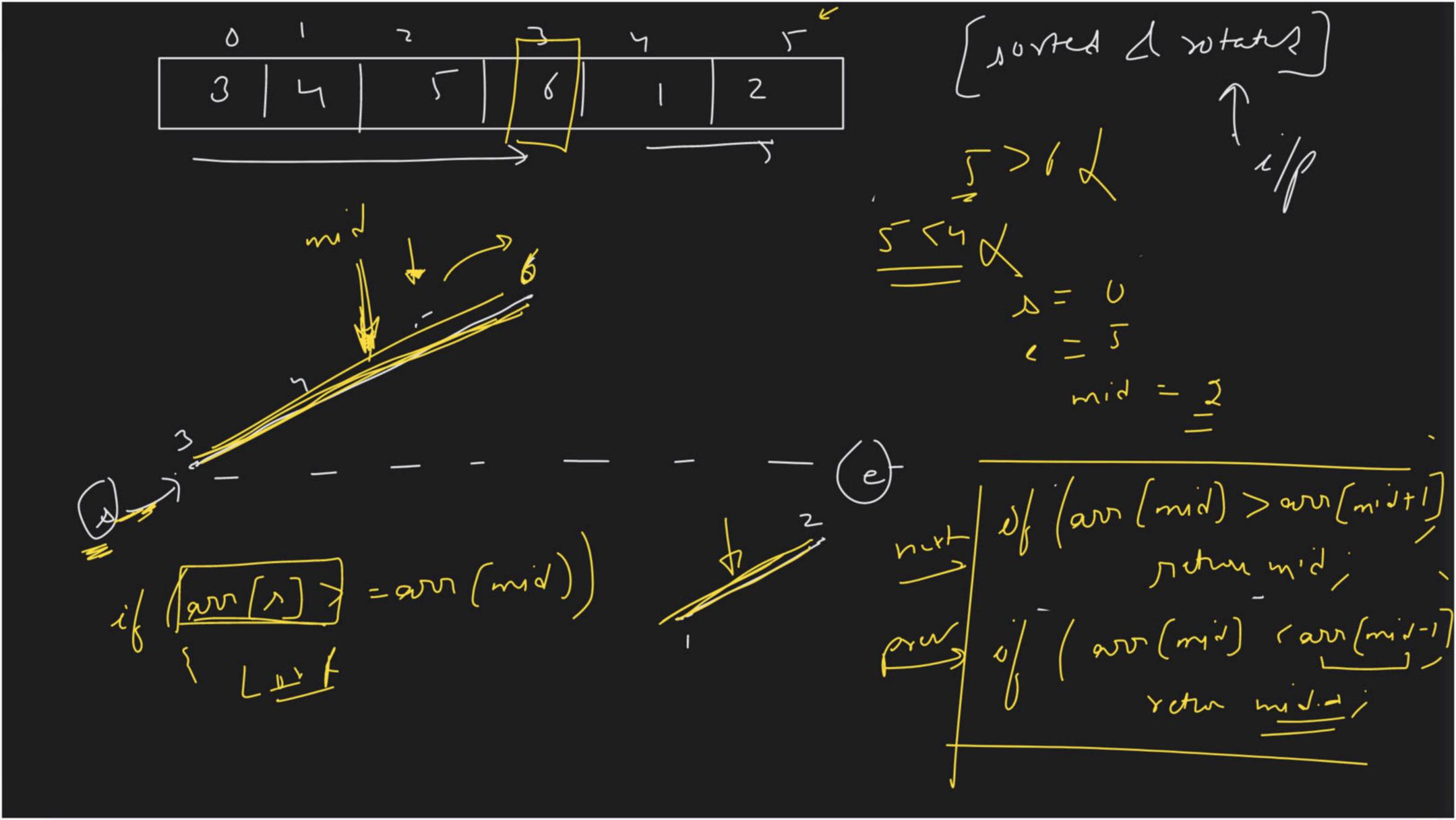
-> find pivet in an array / / / 2 3
i/p-1 { 3, 4, 5, 6, 1, 2 } pivot -> 6 #1) Bruh fore > Linear search -> max element -> D(n)

(+1) -> B5 -> O(1.6gn) -> Mow->?



M .

(4)

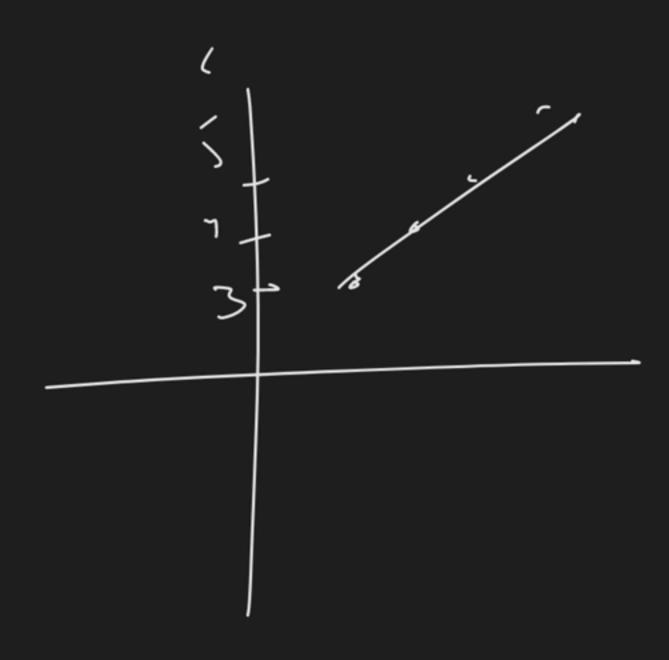


mi/= (0+5) > 6 2 5 4 5 3 | 4 | 5 | 6 | 1 | 2 hut i/ (aux (mi)) > aux (mid+1) mil >0

/ www.mil >0

/ www.mil >0

/ www.mil >0 - chu md-/ Lyr/Right if (austr) # aus (mi)) i/ (grr[s] < grr(mi)) 11 3 2 - mi) 1 da = mid 1!



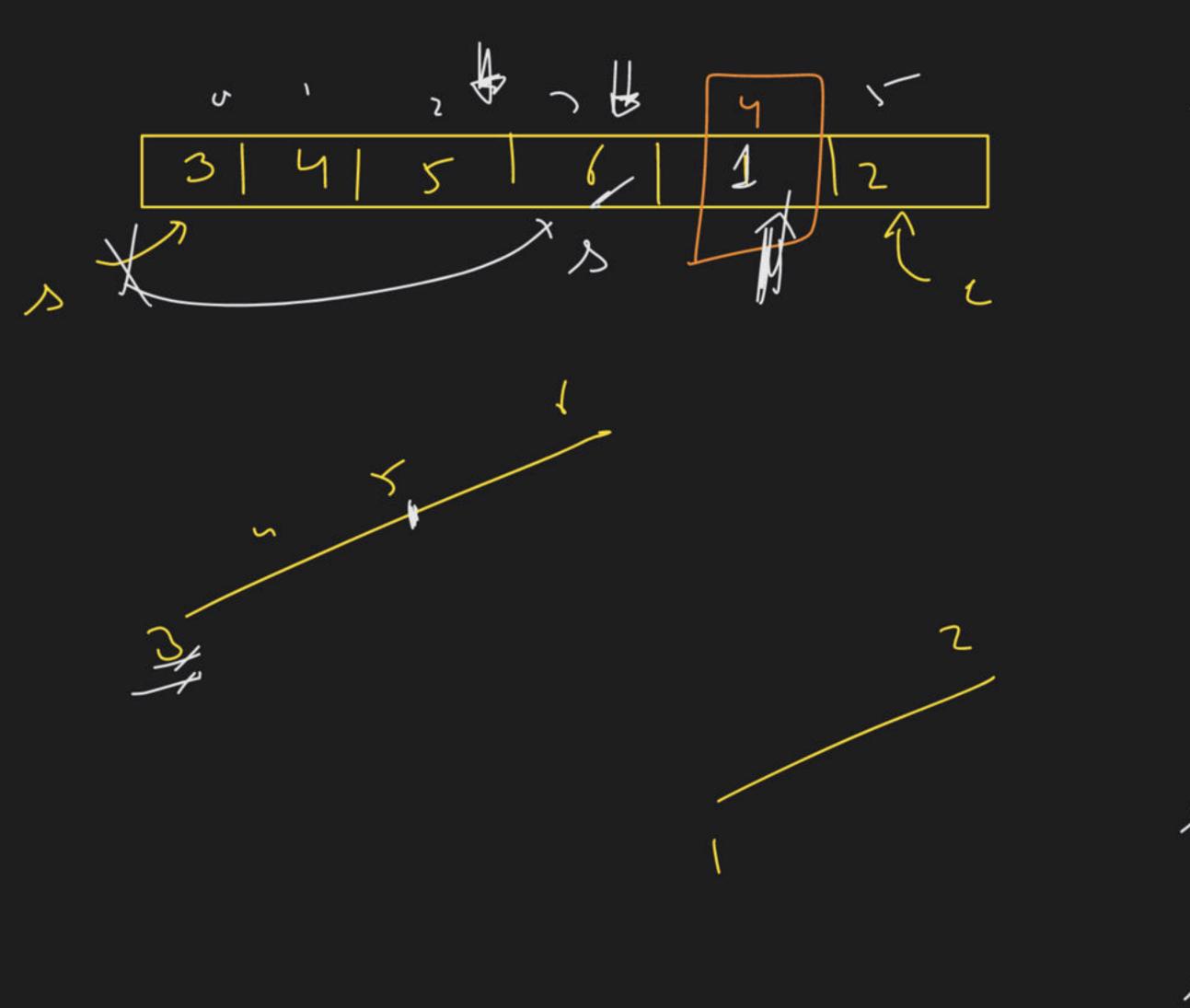
2 tre of 2 (3)4 Tivat -> 1/13 3 4 5 1 1 2 A Mid 18 mid = (1-12) 2 6-15 (I) co-perce with (e = 5 (3) -0 =0 5</ (T) Compare with D=3 priv elint il (arr [s) > = arr (-m') c = 5 5_54 m'4. 1 3375-6

same appwach 1 2 3 4 5 Allu-> Dy Run

ous yur No

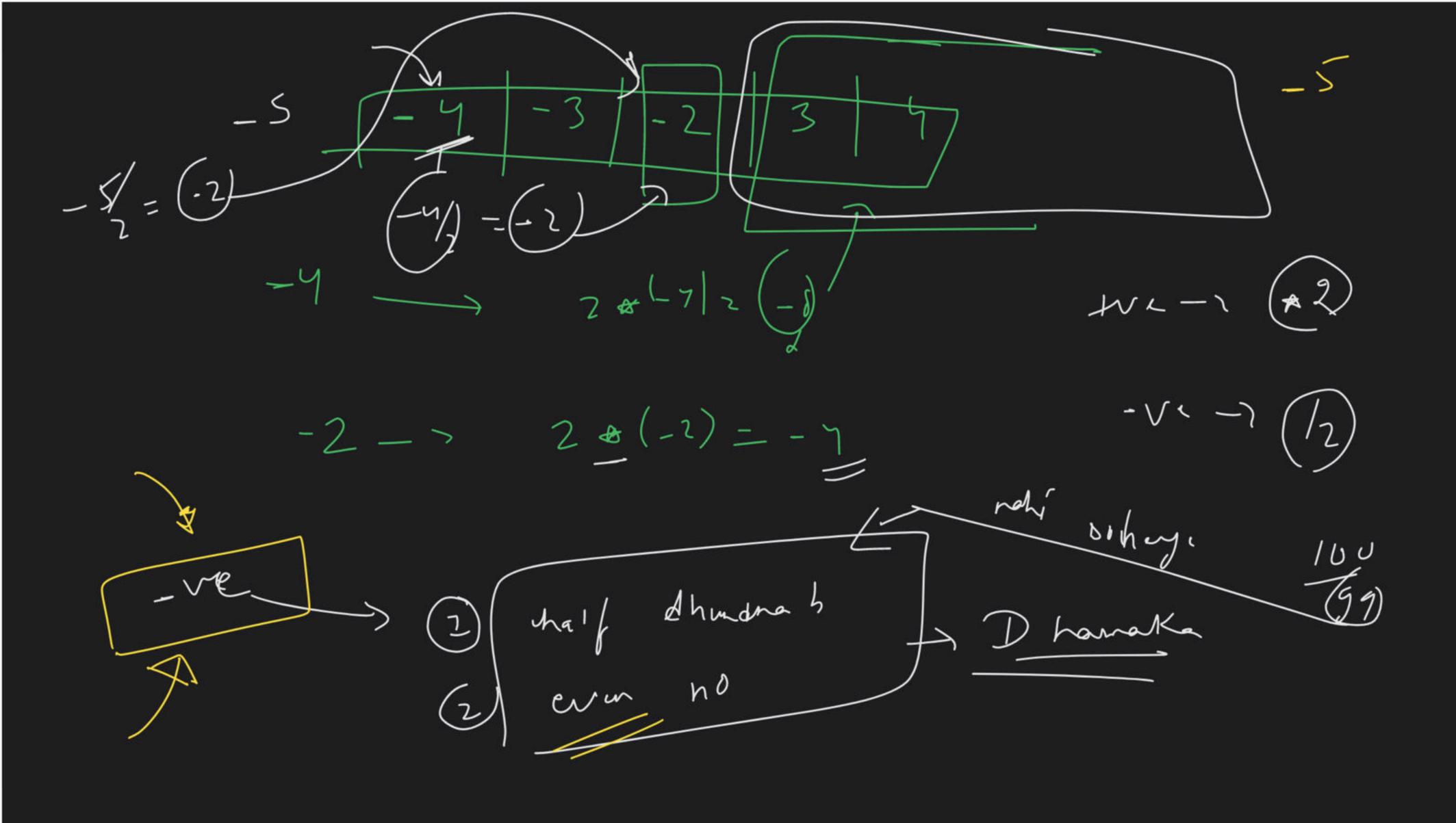
Yī -> [L

m. d- (1+L)/2

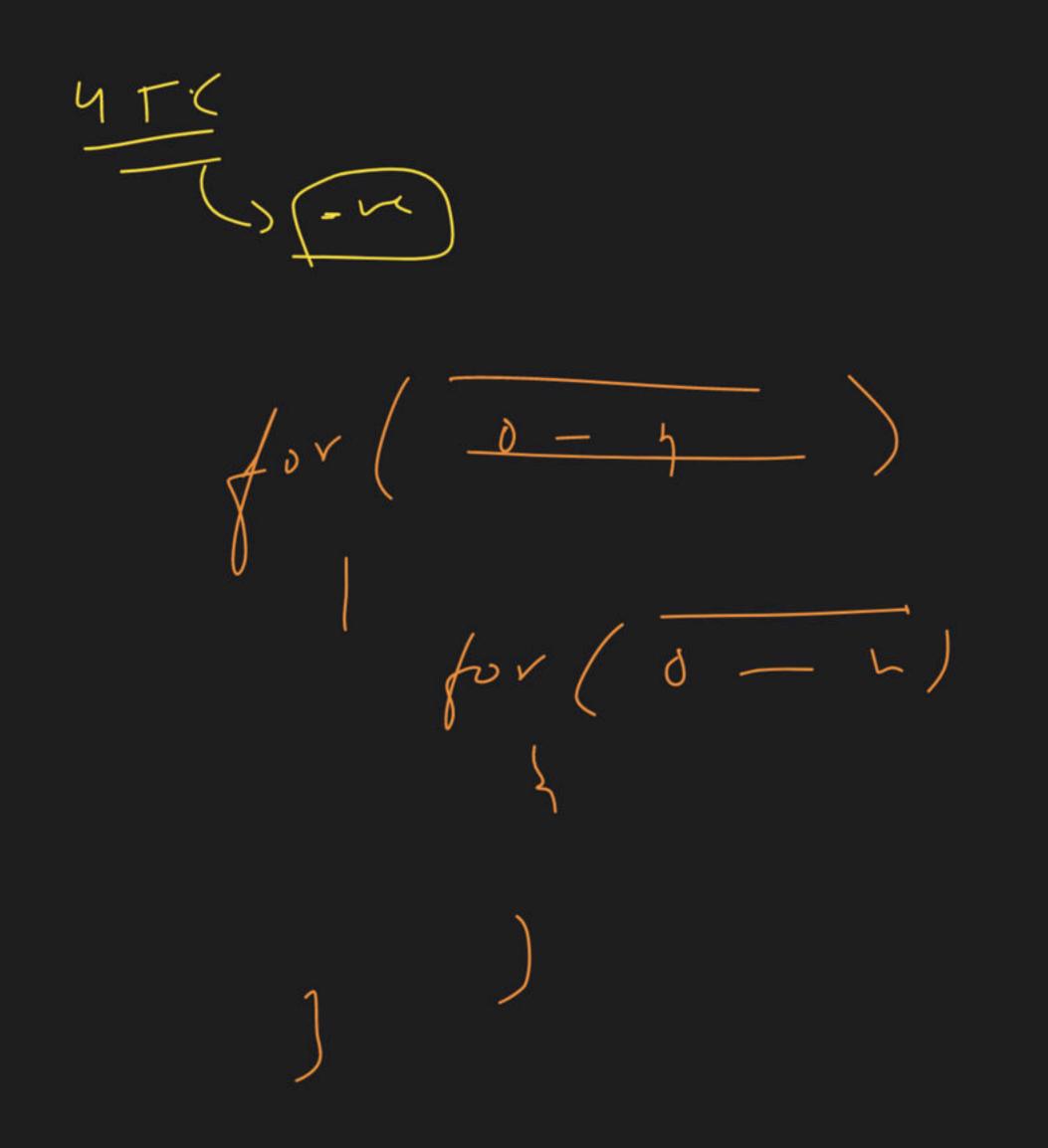


~~ = 2 ~ d = -5 milz

Sugges -> YT-)Pivot Peak in a mountain 30 min > 52-> 1.414 SPRT - WI) DS (4<u>T</u>) (04eMyp) J TRUE \
S FMSS B-5 Lary > 1.1, 1.2, 1.3, 1.4 -> 1.61 1.80 -W -> 1.411 1412, 1.417 /1.517 n men if Nd its Double Exist $\Rightarrow \# Bruh fore \rightarrow 10 \text{ Map}$ $\Rightarrow \# Map \rightarrow 0 \text{ (n)}$ -> # D.S -> (n/vg/) ->> NOV- -> hlow N 2 AN wr(i); N
arr(j); N (5) - ADI(10)-1 true



147. 107.

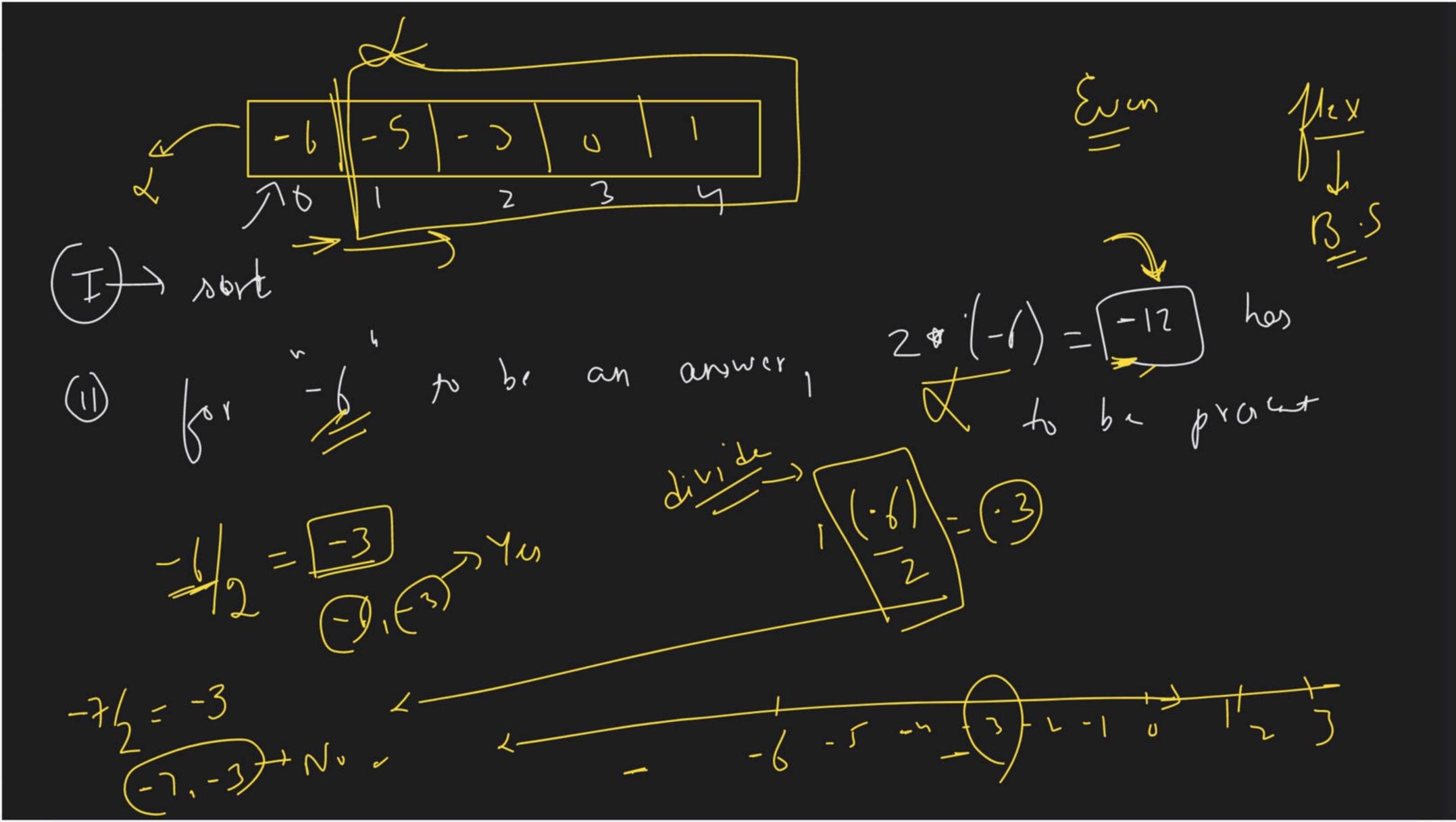


 \rightarrow $\left\{ \begin{array}{cccc} & & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$ B.S ()

() -> 10)5 1 -> 1-2 - (5/3)2) -> los

hz aur. nizc() or 2 to be an arrow, I have to be present our [i) = 2

B.S (ill, e, y) or falm or b



HW->STL-> my < int , int > m, Tur (iv i -> 0 -> < h) it dement = arr [i); m (donnet) ++;

No Index sougle: 0 1 2 3 Exuited or not (0 D) -> TKVE 1 ve no -1 =2 fu (arr (), mire) MLC target 3 30 - Present ov Not

Scaran spar

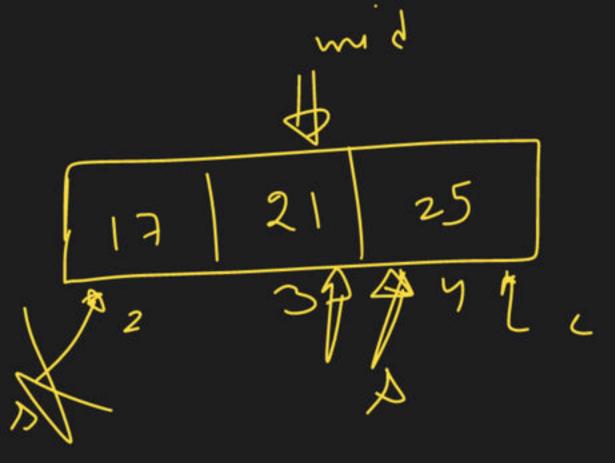
$$b = 0$$
, $c = 1$
 $val = arc(0) = 2$

· Val < tagt

2 < 25) T > new ray; find Kow

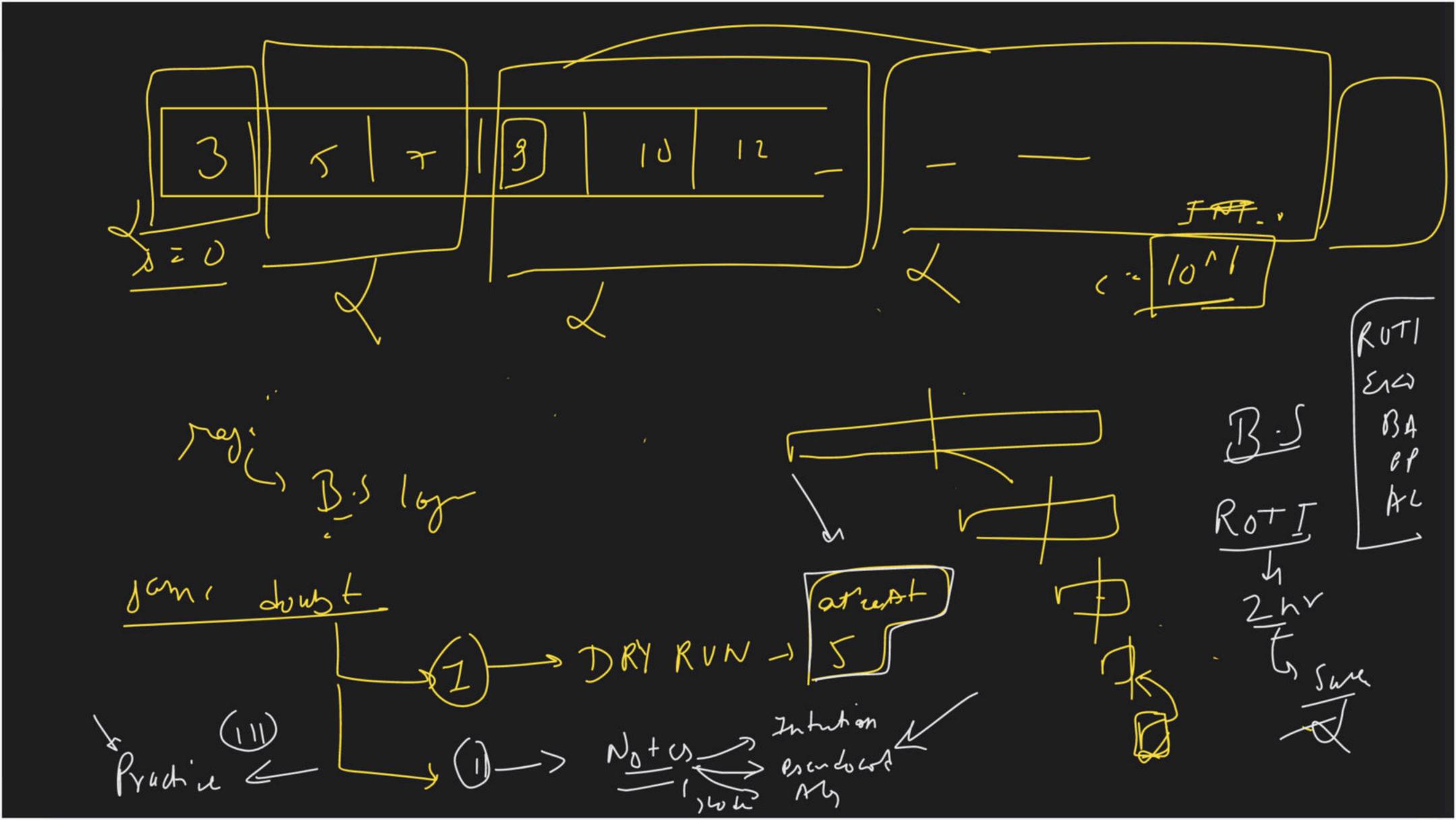
12 < 22 = c

5-1, (=) val = 17 17 <25 -) T -> nus ryet?



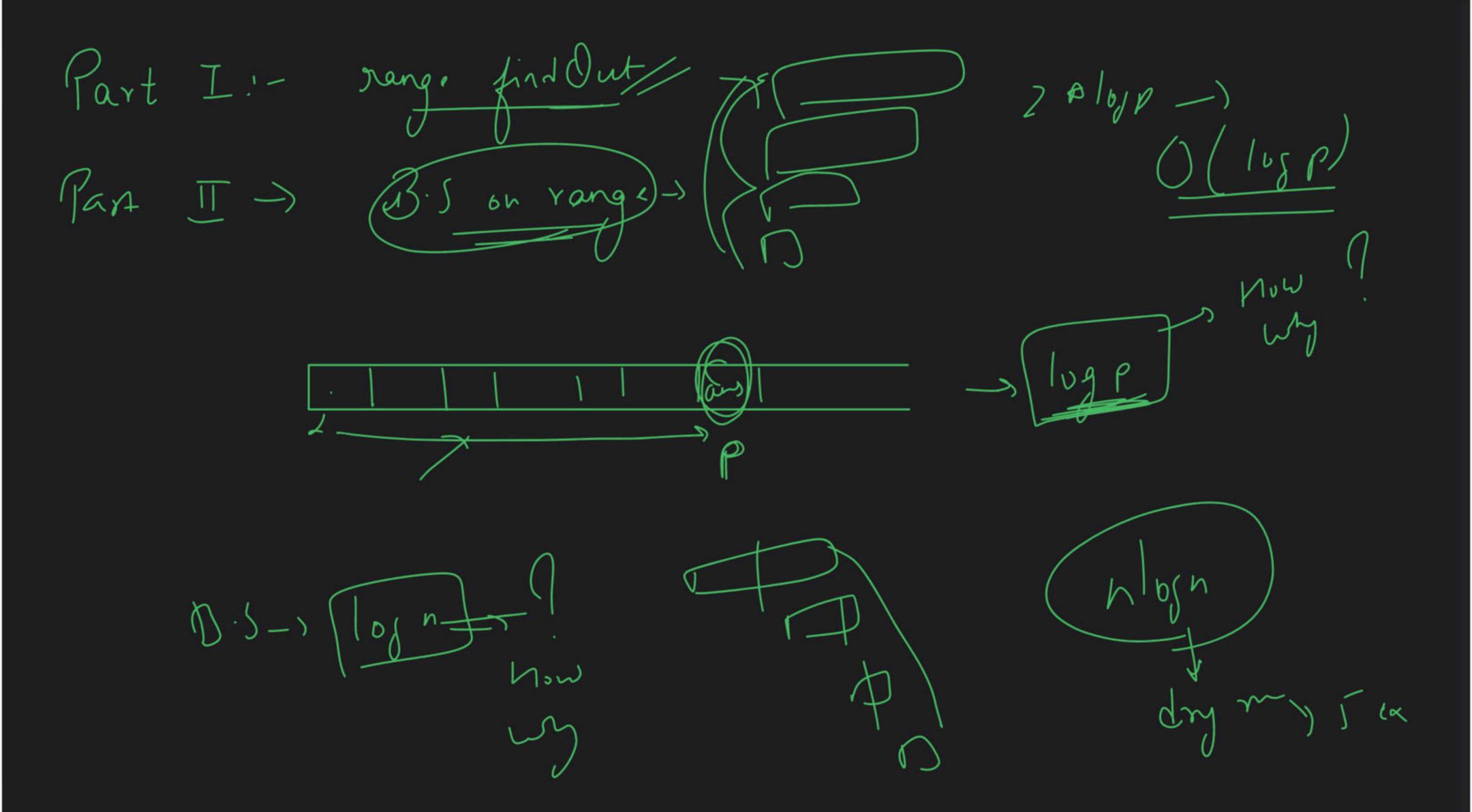
322, L=4 mid 2 (2+n) 7 = 3 21== tagt=28->feb over (mid) < trypt 21 < 25 -> Tmc -> Fisht 12 mid H 2 31/

カーーリ, マンブ m: J = 7 25==25 nohn (4)



Prepara 2-4mi Prodoco de Code Snarke 1 Leader Rond = 60 min Catrly = Datapoint 45 m D/4 -1 (Ir min) -1 Project

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3 Coogle - 5K+ Unknown Mize) (/. Thr) Garry some Party (vde) 5K+

Bubbh sir Invition novi Julian Novi Julian Novi The -s Coderup-, YT

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