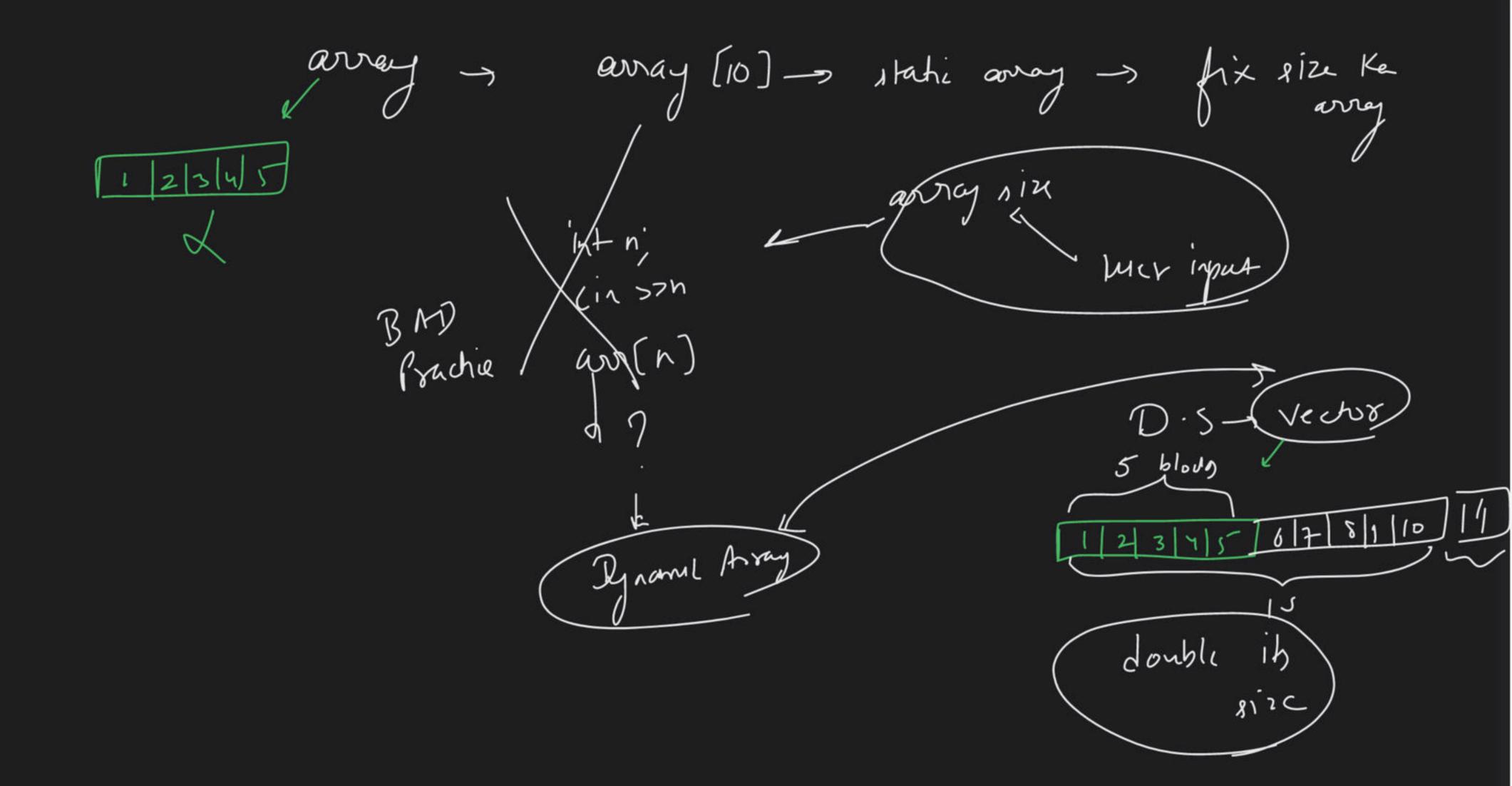
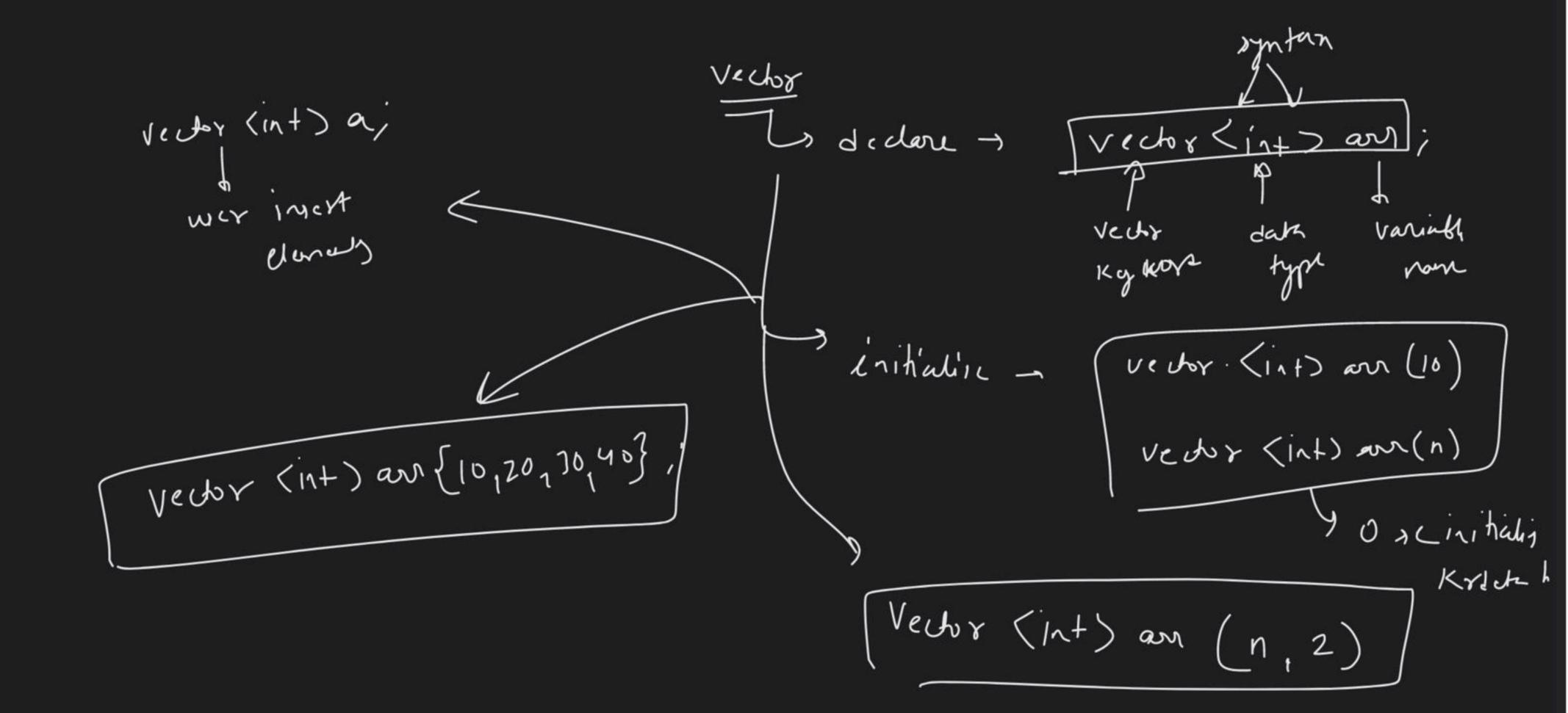
Arrays - 1D shric away = Lee trode > Oph rel X Vector dynamic declar default=0 -s vorify (50/2) rector < int> an; initialize Vector < int) aux (10,20,30)/ (Vector <int) avo (10, -1);

 $\frac{in+n}{(in>>n)}$ > ( Vector (int) arm (n); M (Insut int) arr. push-back (5); aus- puh-back (7) Yemo VI arr-pop-back (); our. size(); (3124)

1h+arr[n] size of Cint (empty) - arr-empty(); rus cape uty = 8 1126=4





insca -> Lestor push-back() vector (int) am; arr-push, back (5) an. puh-baux (6),

Venore) pop-back()

arr.pop-back()

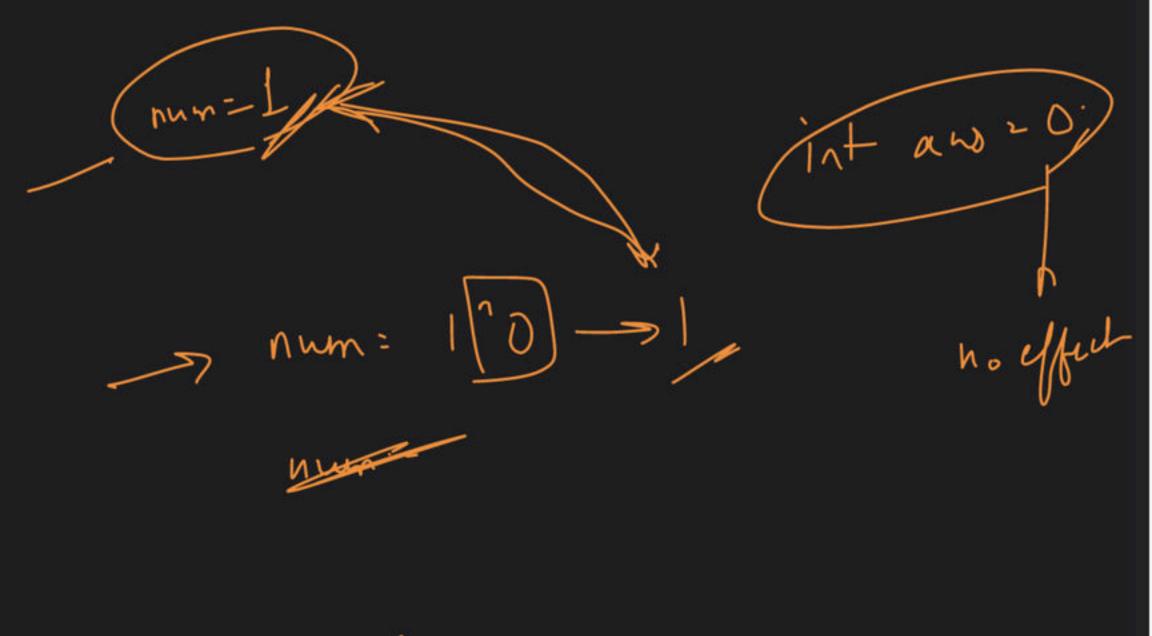
-812 C -> aurisize()arr-capacity () capacity > arriempty () comply

how to accept

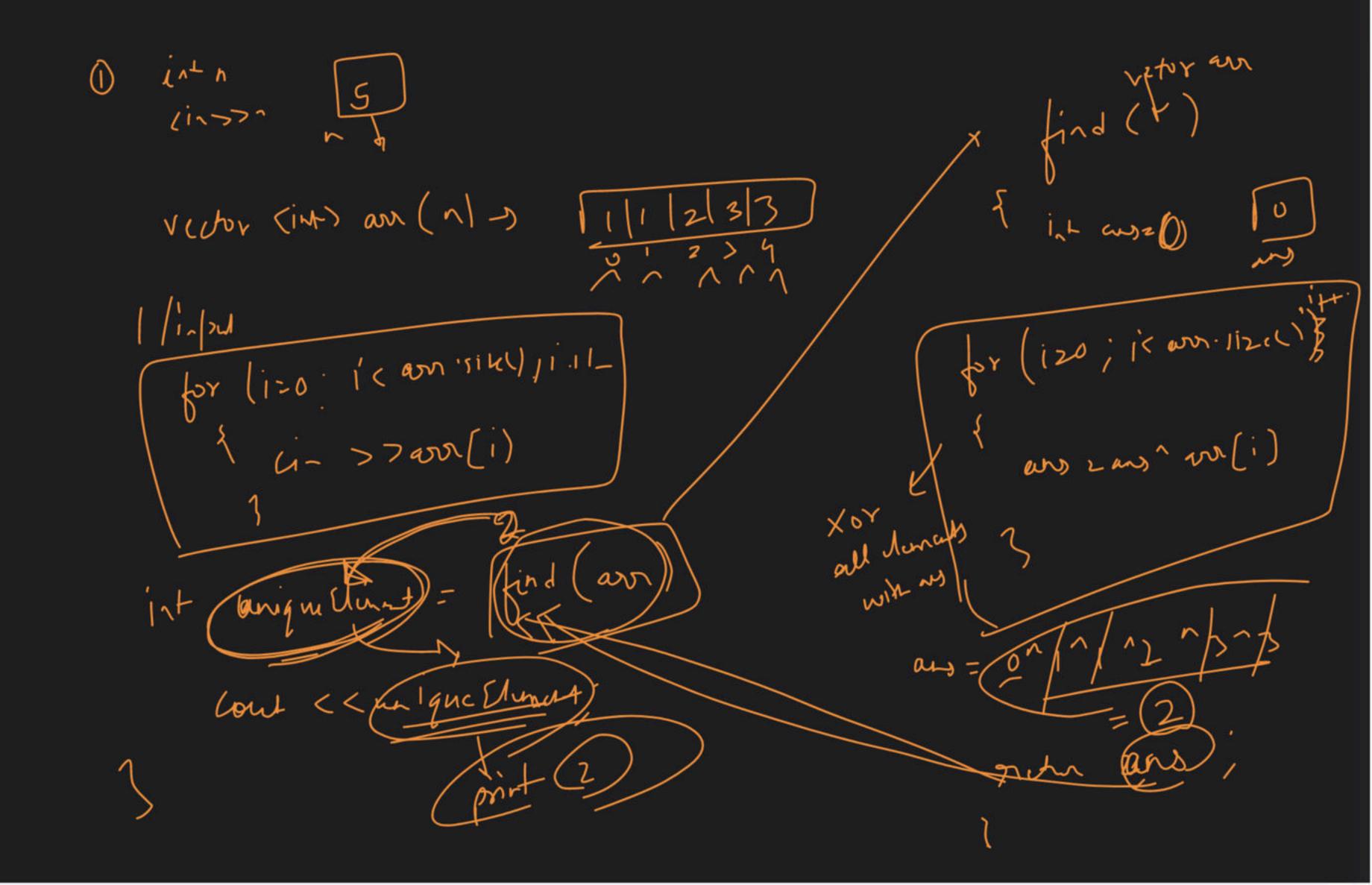
nh eliment

in vector 1

every dement occuss (with exceptions Unique Element 1) Find 2, 1, 2, 1, 3), 8, 5, 5, 6, 43 i/p > or > { \*, 1 1 -> 0 same clanat 2^2 -> 0 cancel out 1/1/3 = 3 X0Y -> swee->0 p^///12 = 3 Operator > Jillin 17/2/2 13/1/2 15/2 -(3)



num= 9/20 30



Union of 2 arrays arrun franchisch an - (1,2,7) \$ 5 -1 hy, 6 } ① a() -> { 2,4,6,83 // ans (7-) [1,2,3 27.1) (2) b () -> & 1,3,7) duplier -) (seek @ an ans every /vector / into So Vted Jass T put all climat of a [] into an army (2 W/JL) (sot) (odc 10 Duy - 30 - ) RIIIONA John )

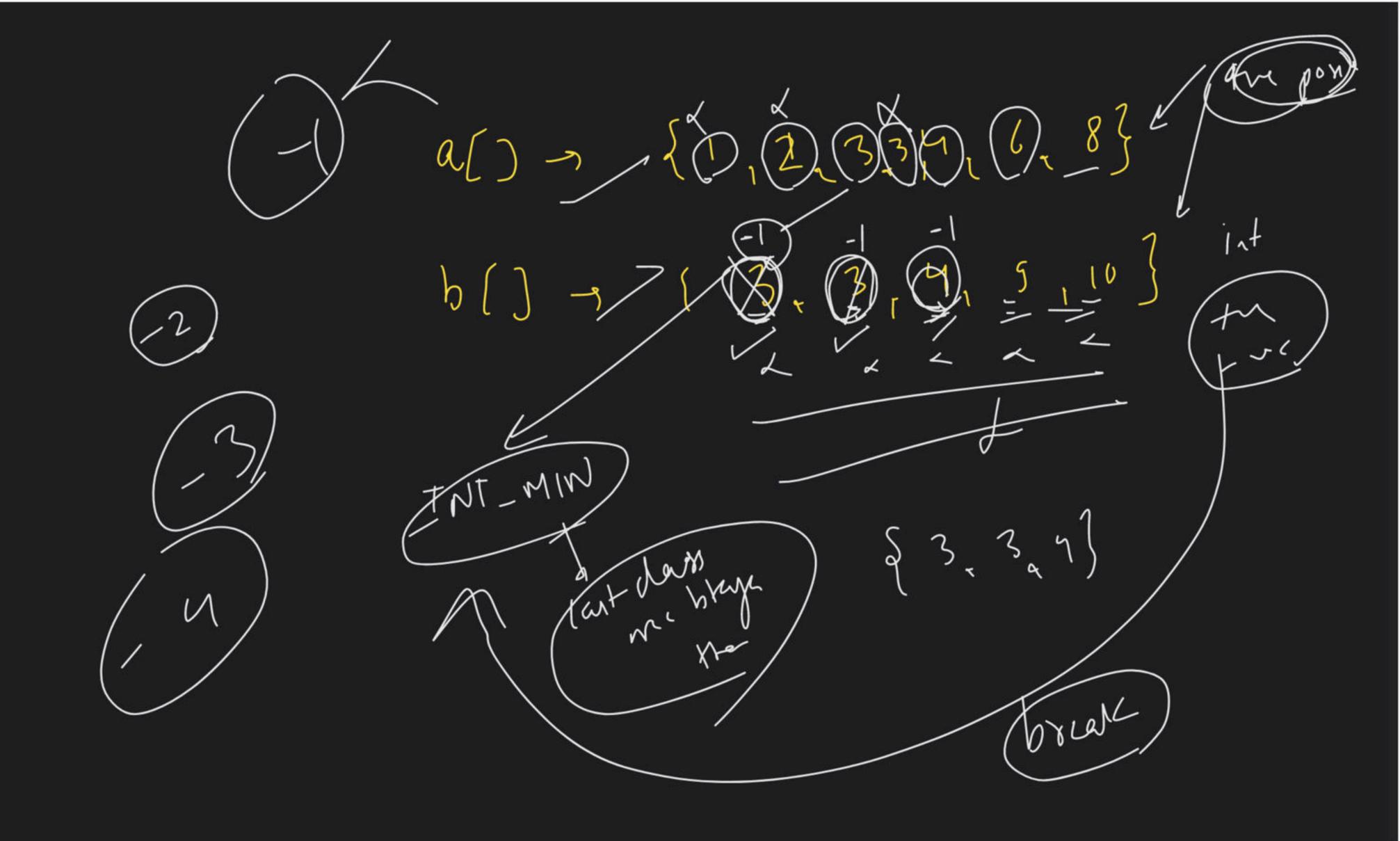
Union- (with duplicate) jikknochie 1/W a -> { 1,2,9,0,8,10}} 212146810355 Union-1 old a/s

(1,2,71(,8,10,7,7,1)) THE MIN ) we want

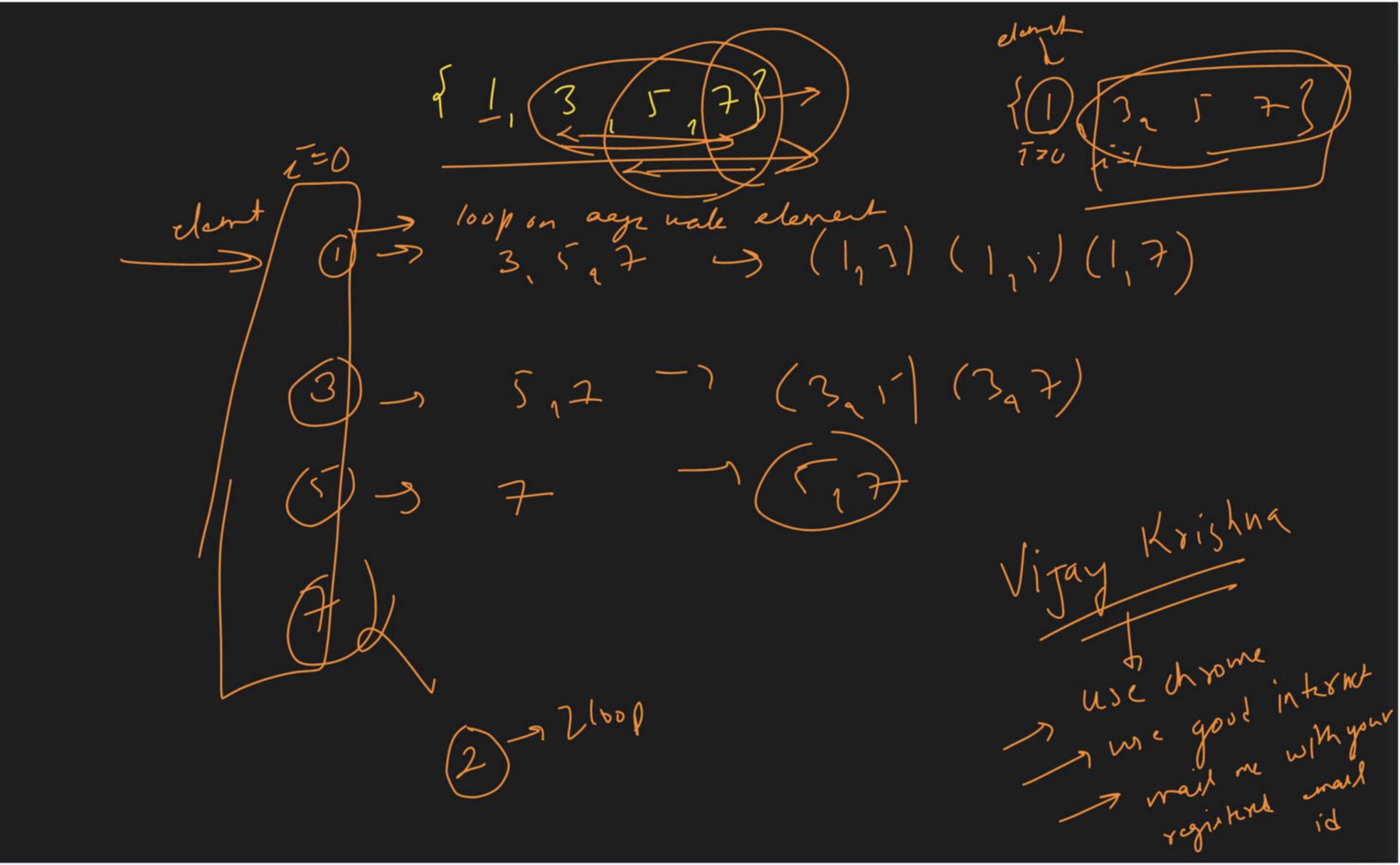
no repeated number 2

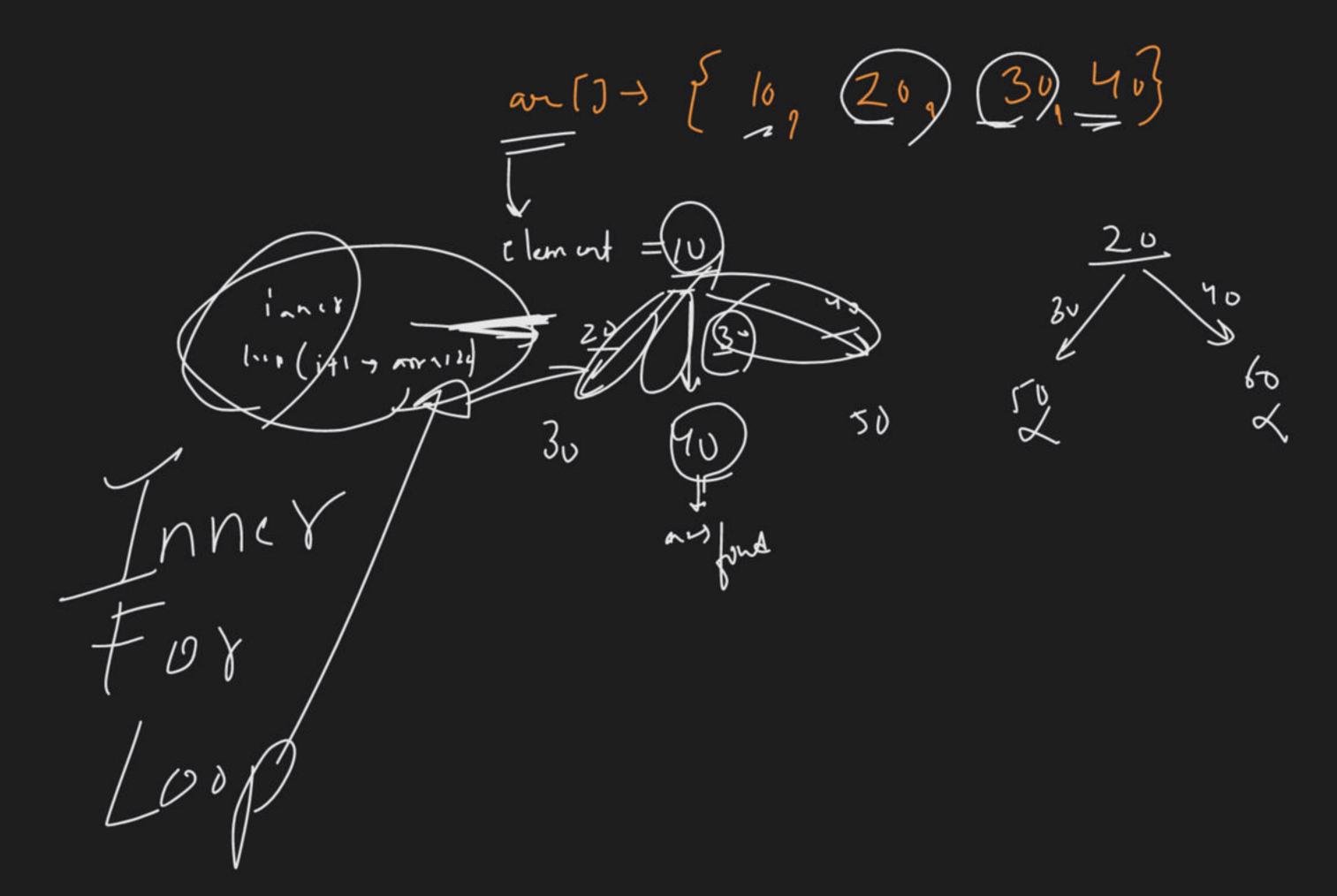
Tolande (value);

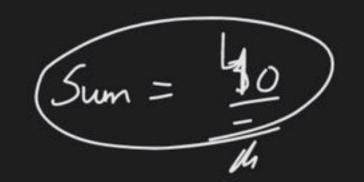
a() 114 nection b () Intersection (unhumon dessut 1001 m



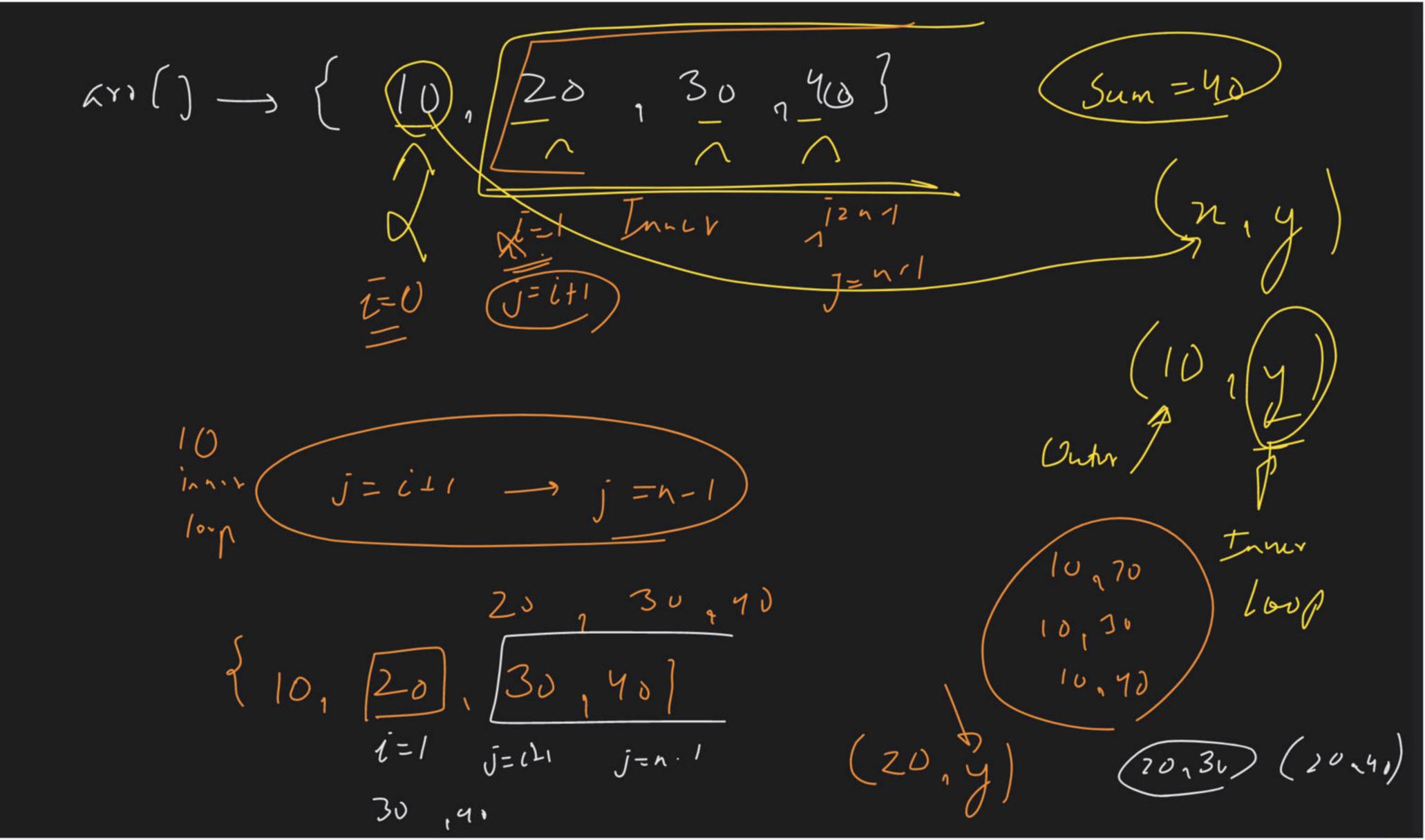
Pair Sum! find a pair that upon addition gives value equal to sum (1,57° (3,75° (5,4)) find all

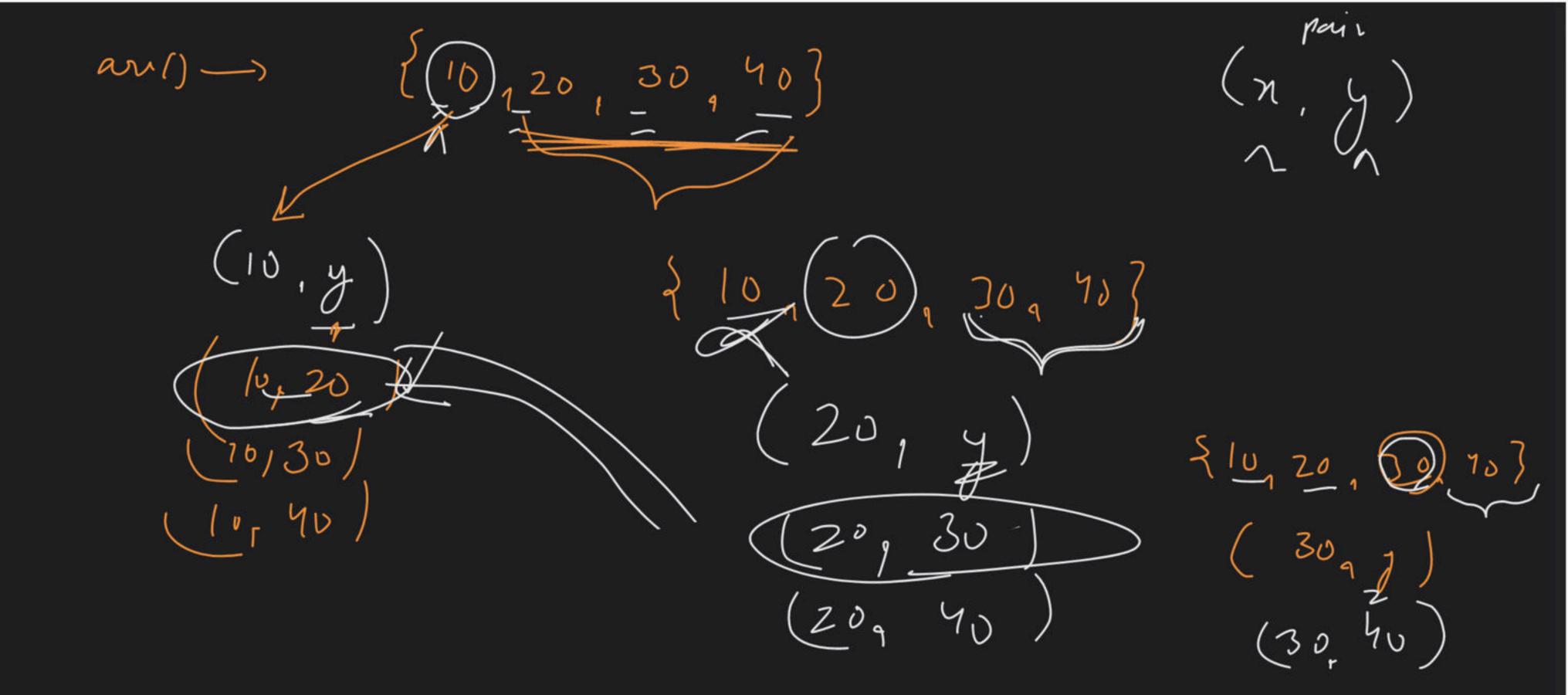






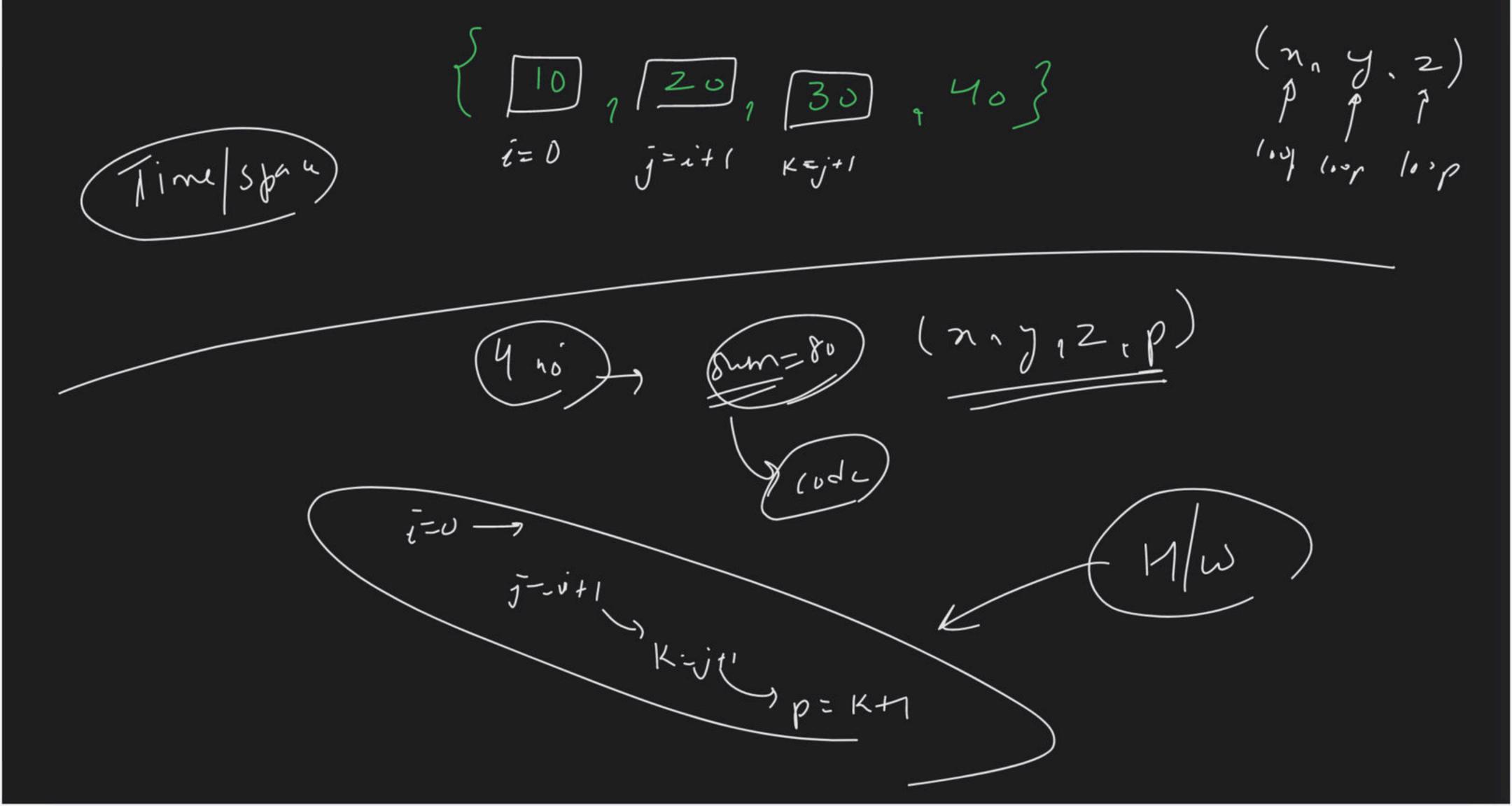
30/2/2/2

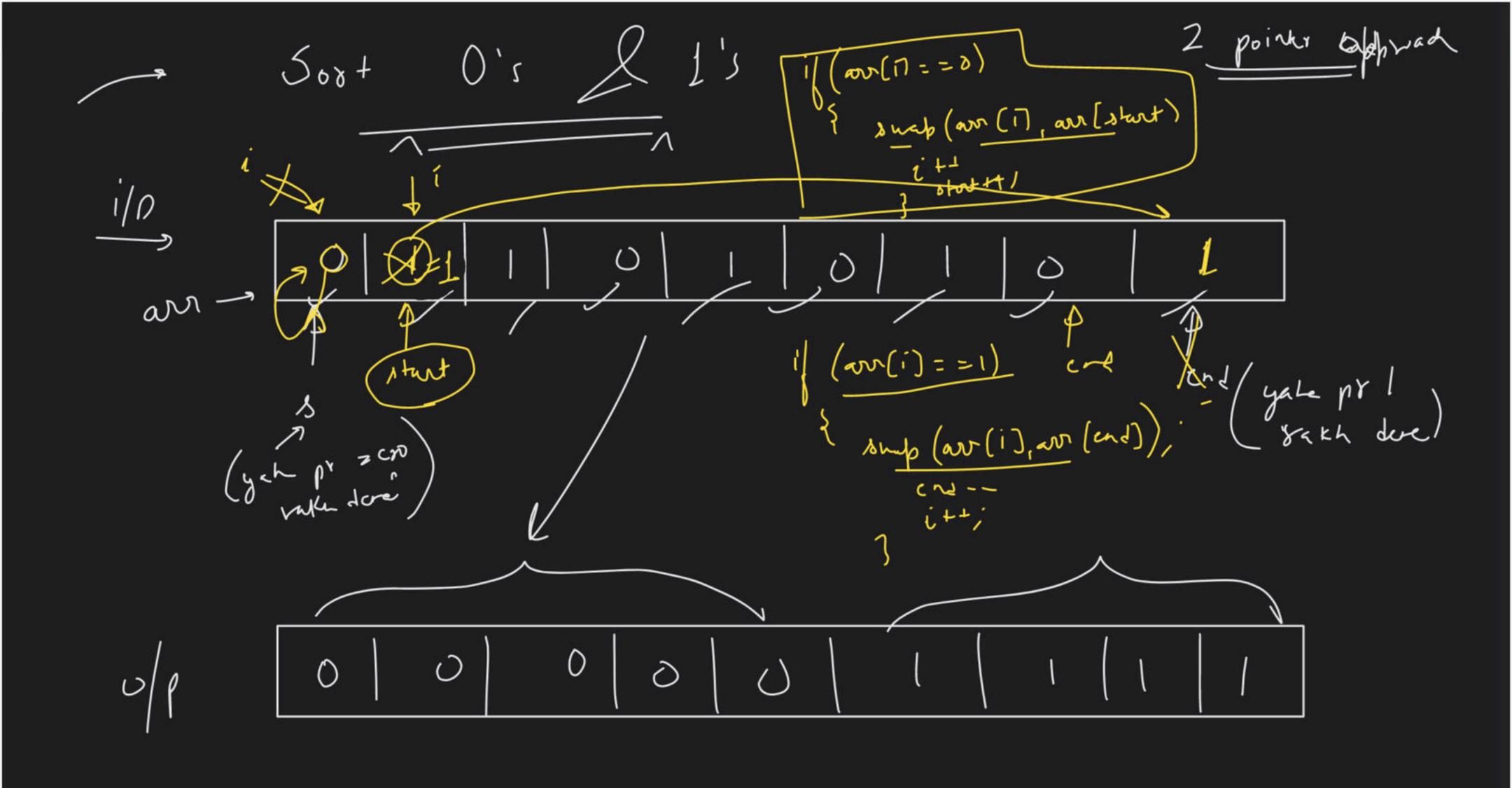


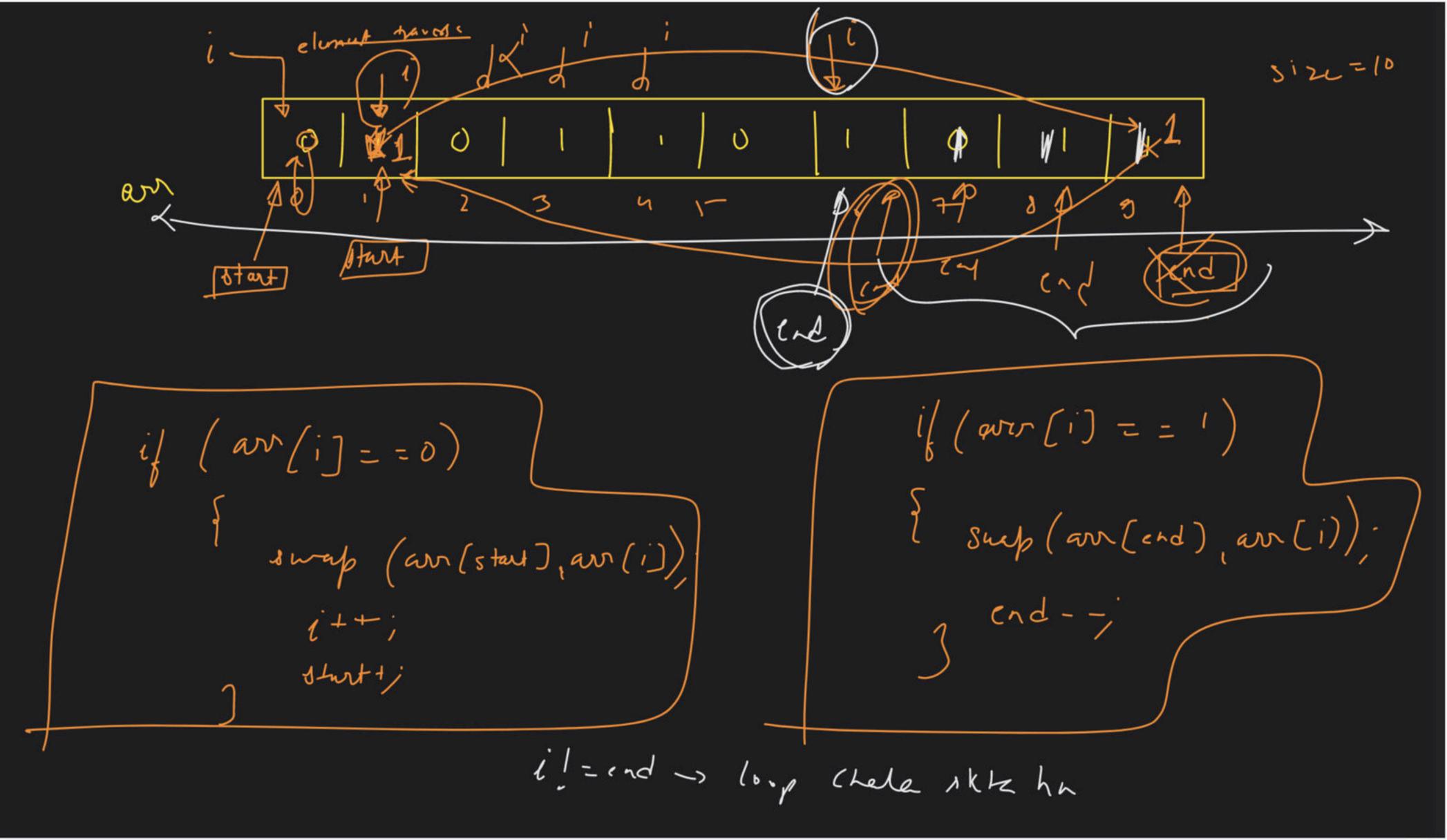


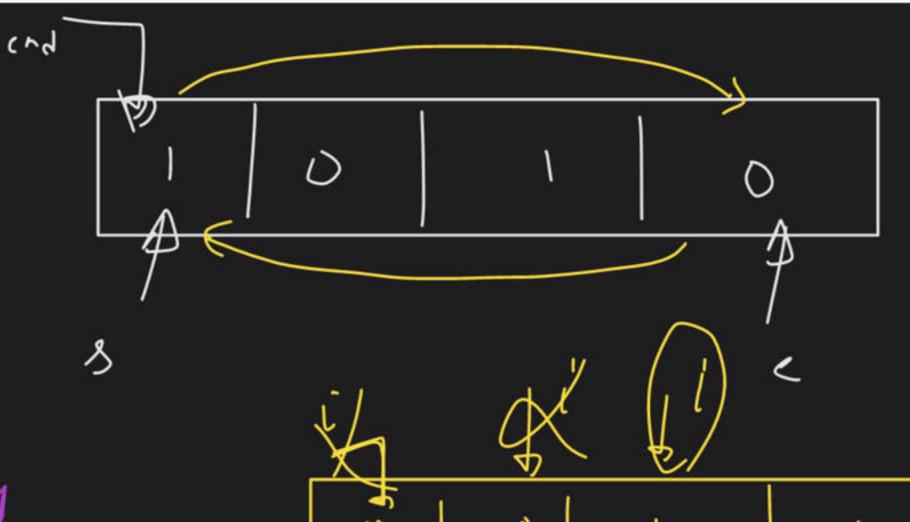
5um - 80 (10, 70, 40). al) -> { 10, 20, 70, 40} {10,30,40} {10,20,403 (2) X dowlf/pai { 20, 30, 40} Fry 14 7/00/ 3 /00/p

toplet 3 number (n,y,z) (Sum, 80) find a triplet that upon addition give value egjel to sum







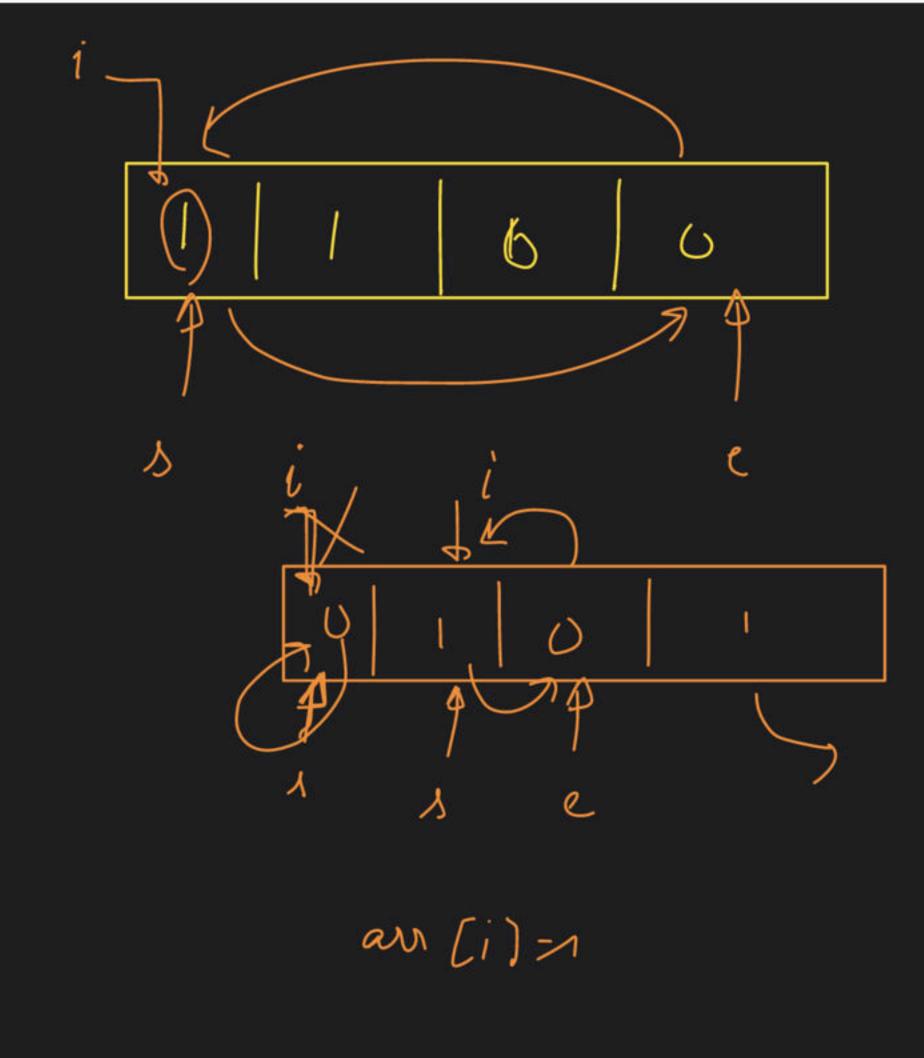


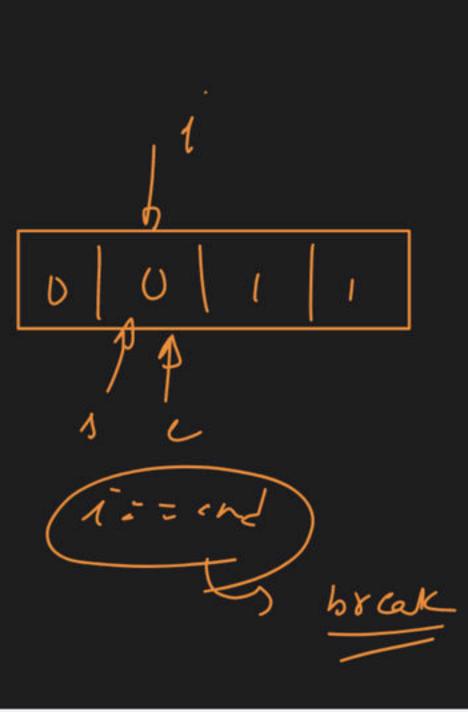
$$i=0$$
 $evr(i)=evr(0) > 1$ 

av 
$$(i) = \text{av}(0) = 0$$

$$i^{1}$$

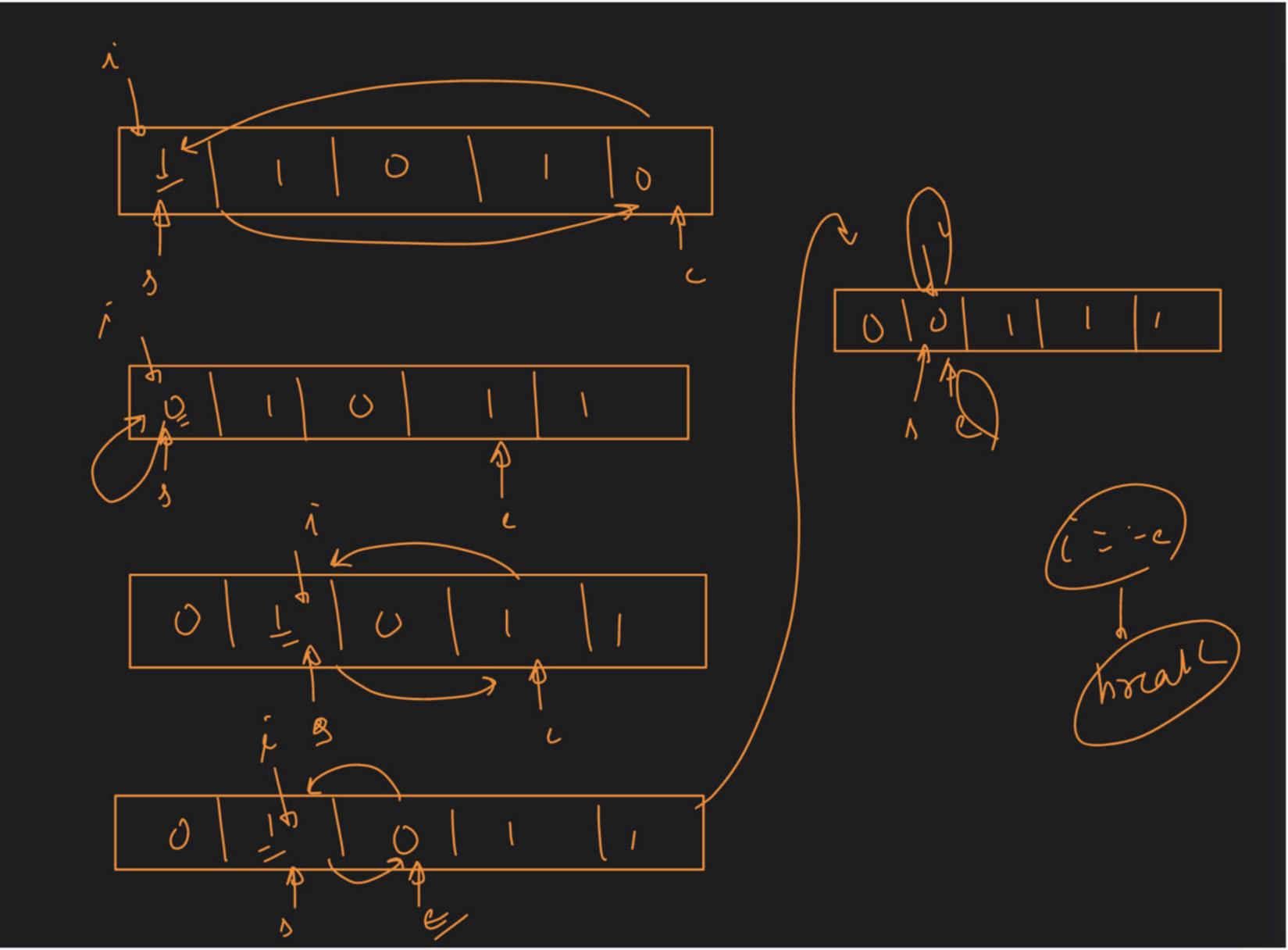
$$5++$$

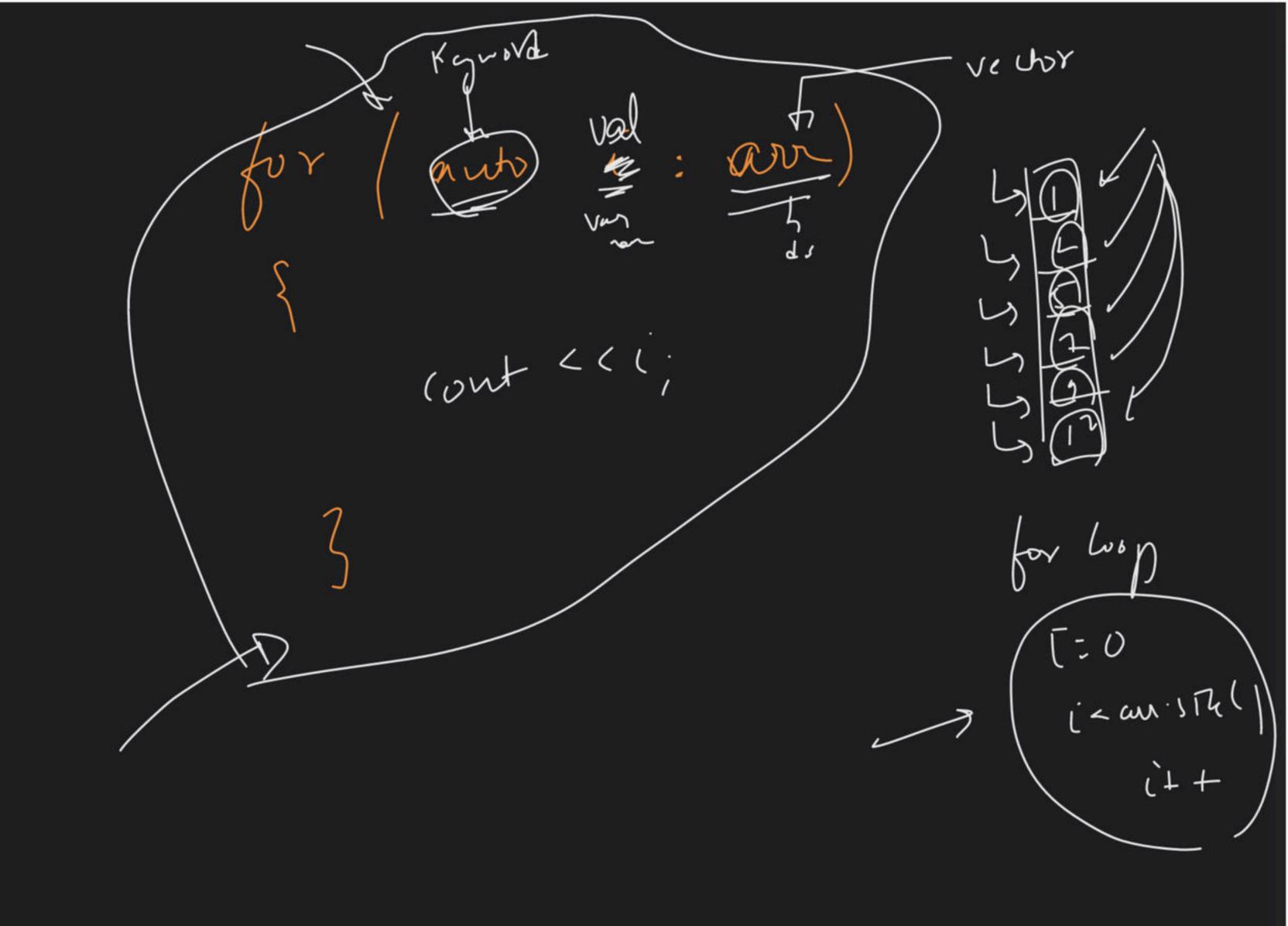




arr[1]=1

an(i) = 0 an(i) an(i) i+1 j+V





ars 0

[20] J 1 2 3 4 1, ans = 0 arr [i] au2 () av(0) av(1) 1 av(2) - - av(x)

[18] but sum

int a[) -> {10,20,30,40,50}

Sum = 80

512 30 9 70)

1) Left votate ar Array by I donort Majority Element in an Array Byy & sell stock > level 1 2 h hent deus 2:30 x 2D Acomy -> Quohio