

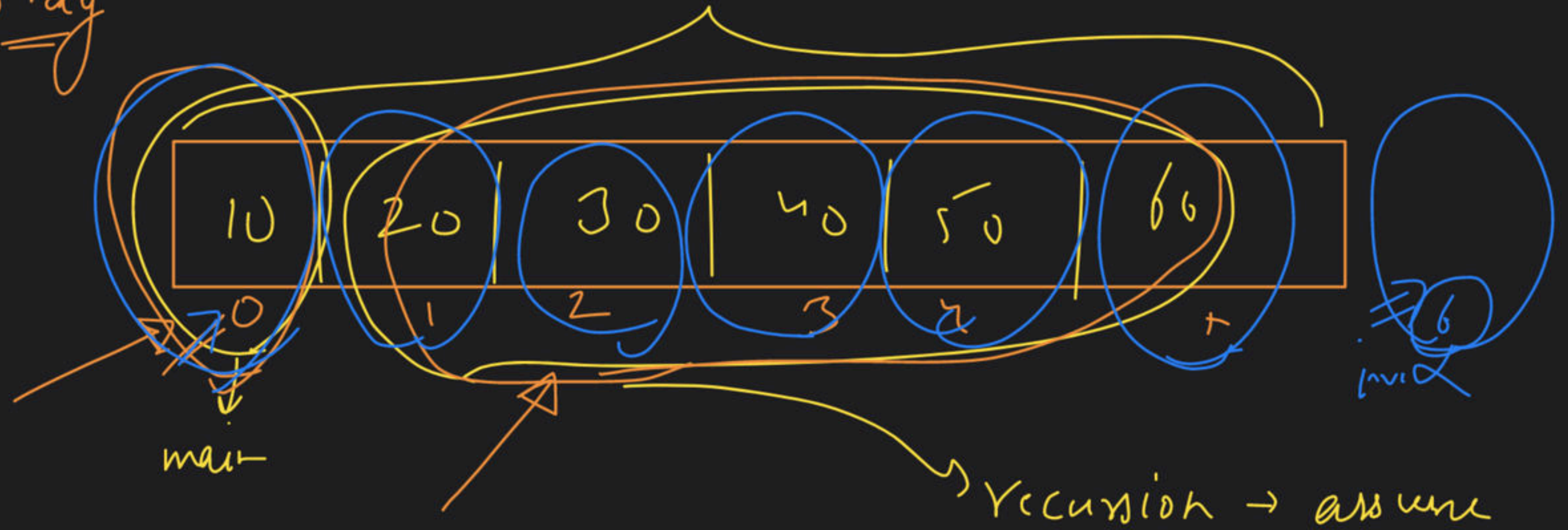
Recursion Class - 2

Special class

T-shirt

① Print Array

// B.C

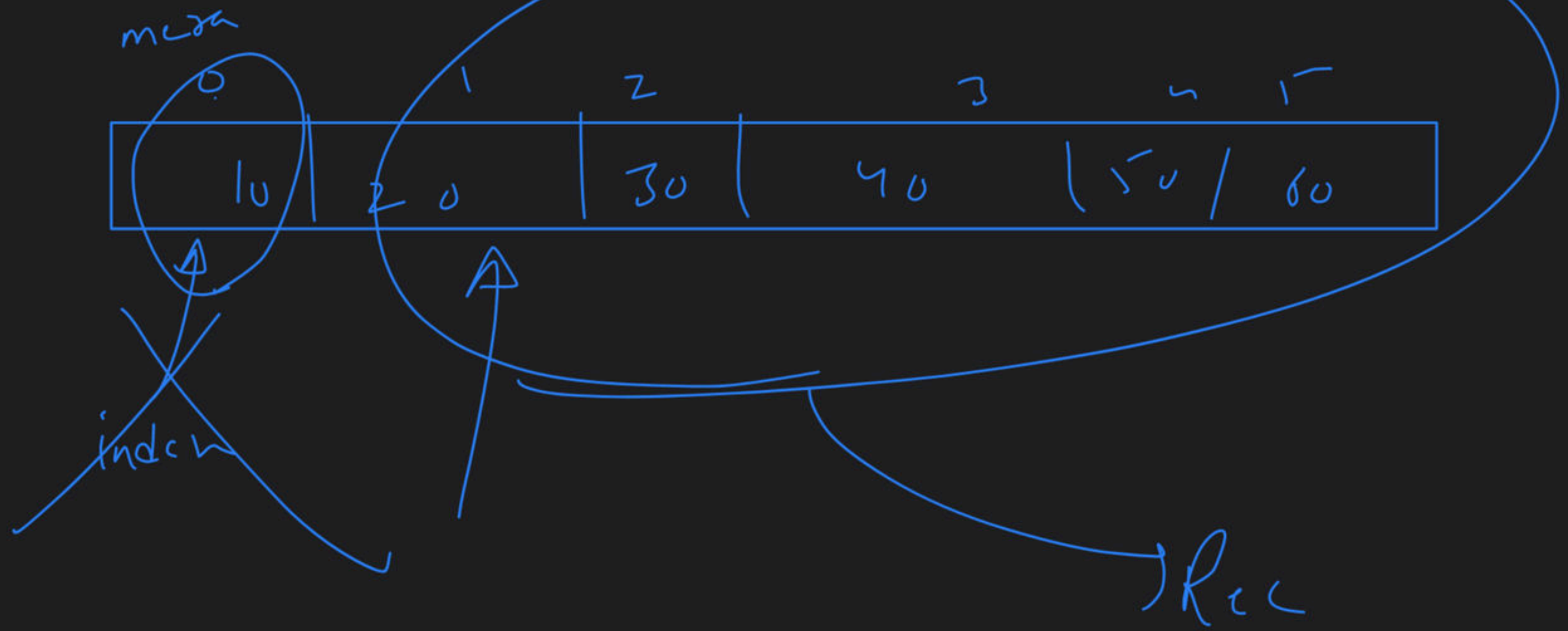


case \rightarrow main

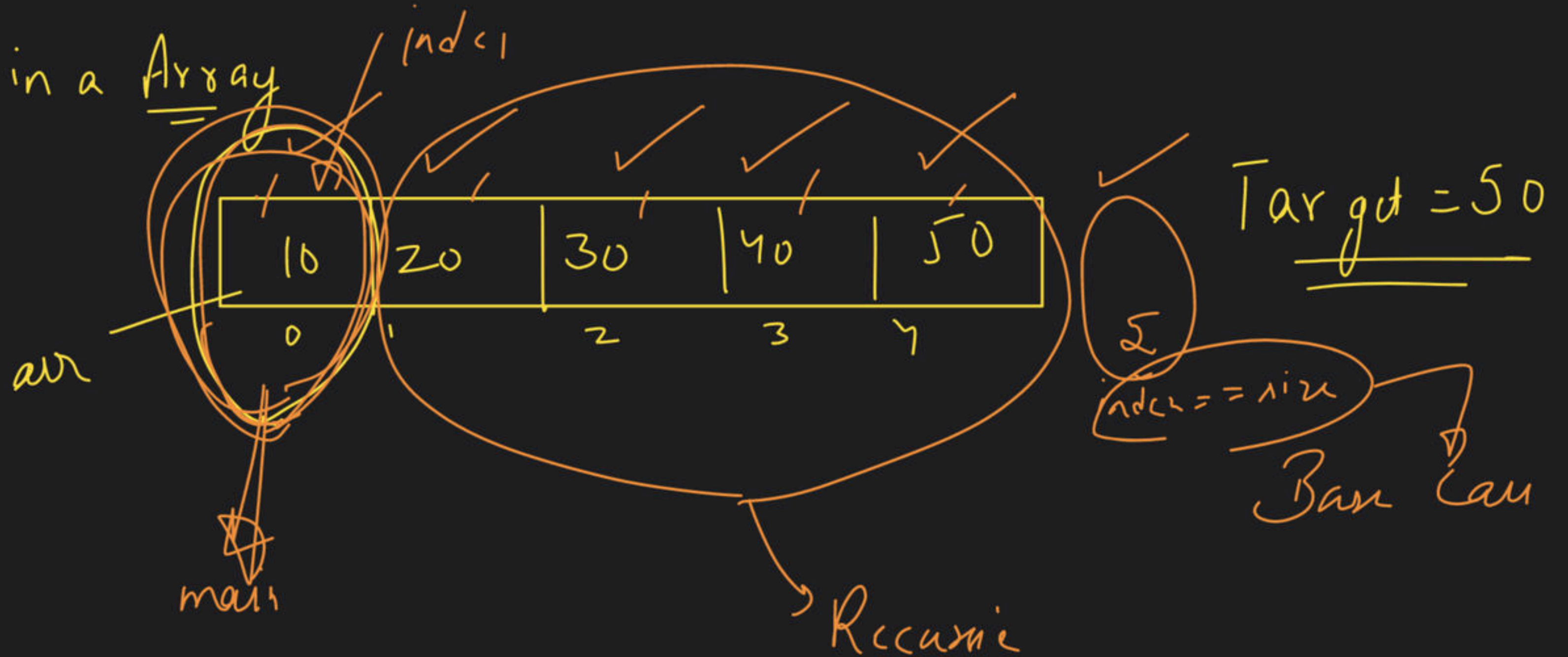
baaki - recursion

$\text{print}(\text{arr}, 0, n-1) \rightarrow \text{cout} \ll \text{arr}[0]$

remaining array \rightarrow recursion
 $(1 \rightarrow n-1)$



→ Search in a Array



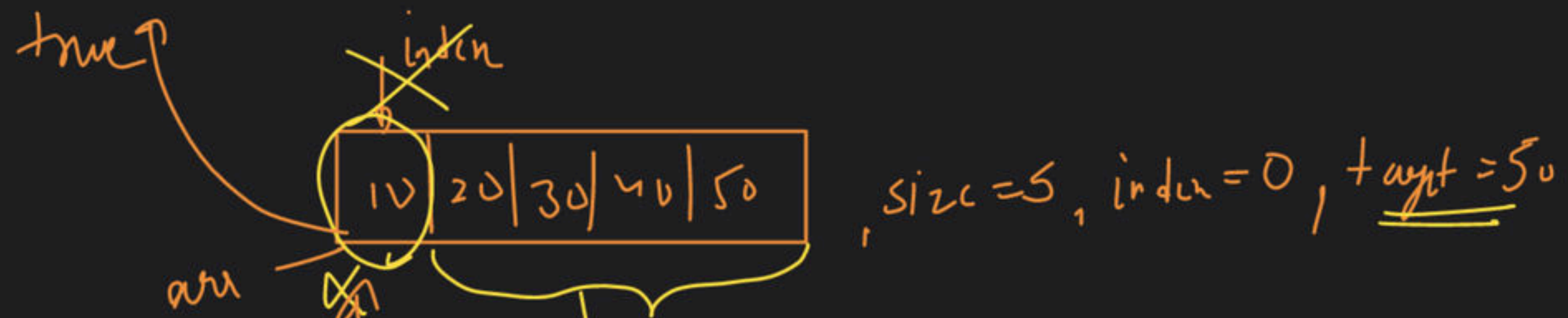
Rec
↳

(1 case) → main

Breaki → Recursive

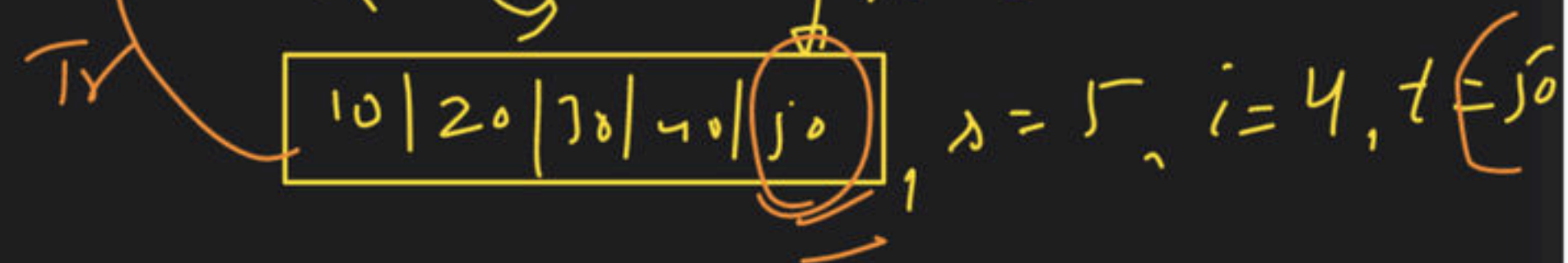
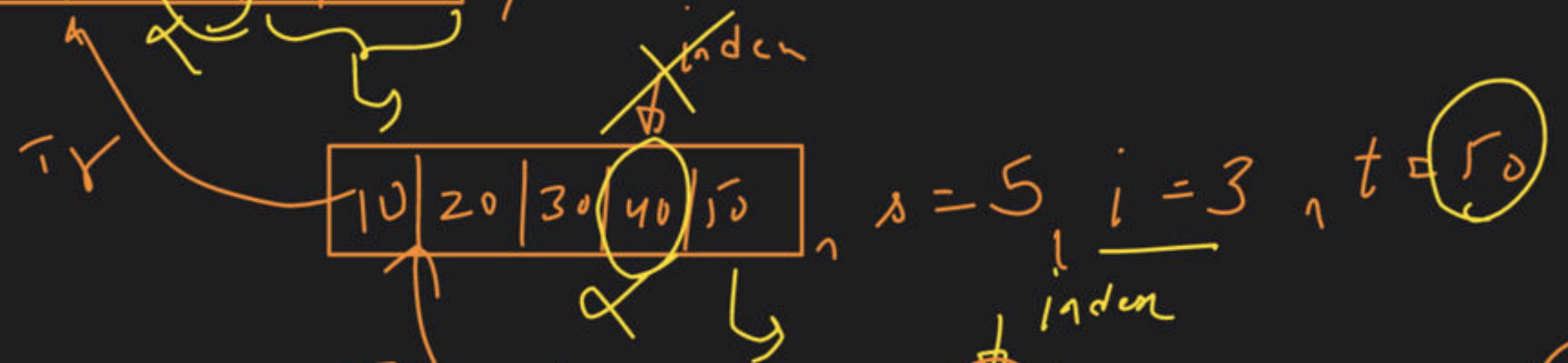
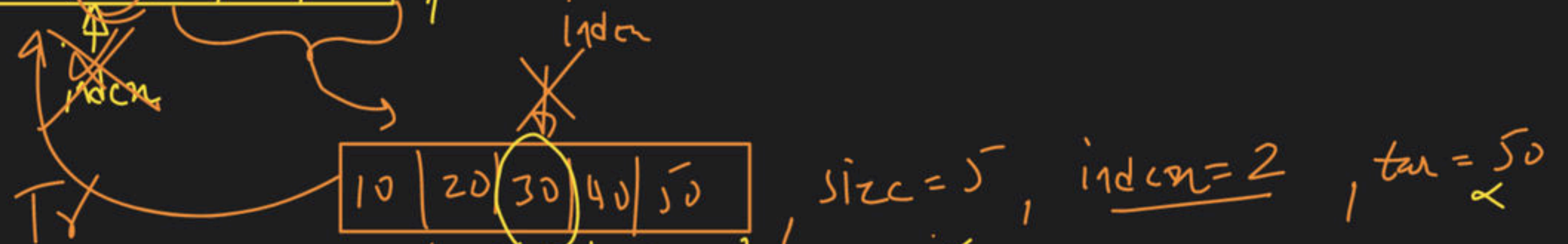
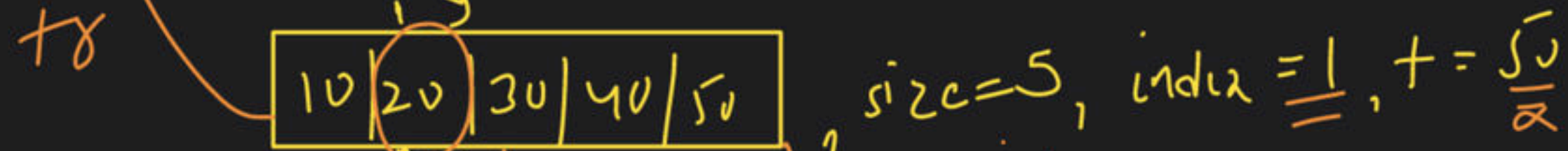
Star 7

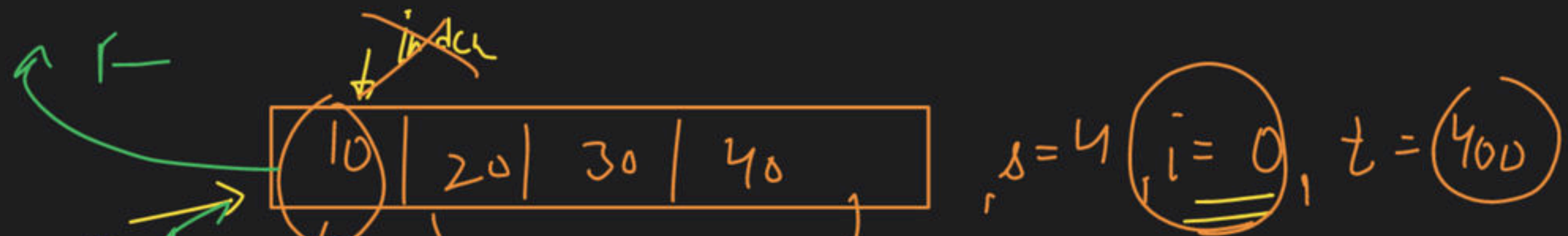
Star



10	20	30	40	50
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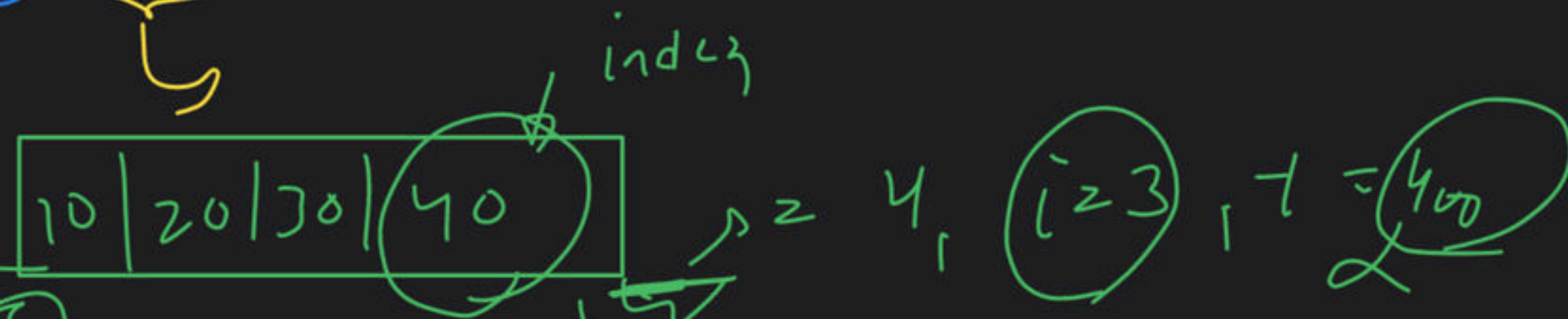
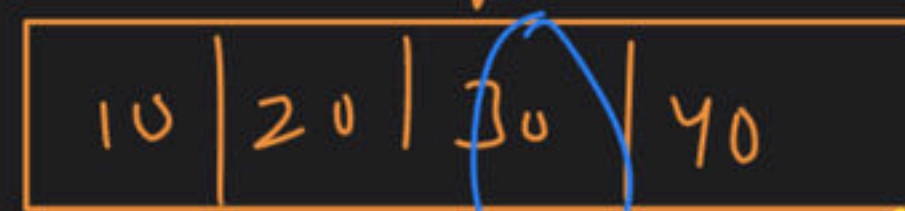
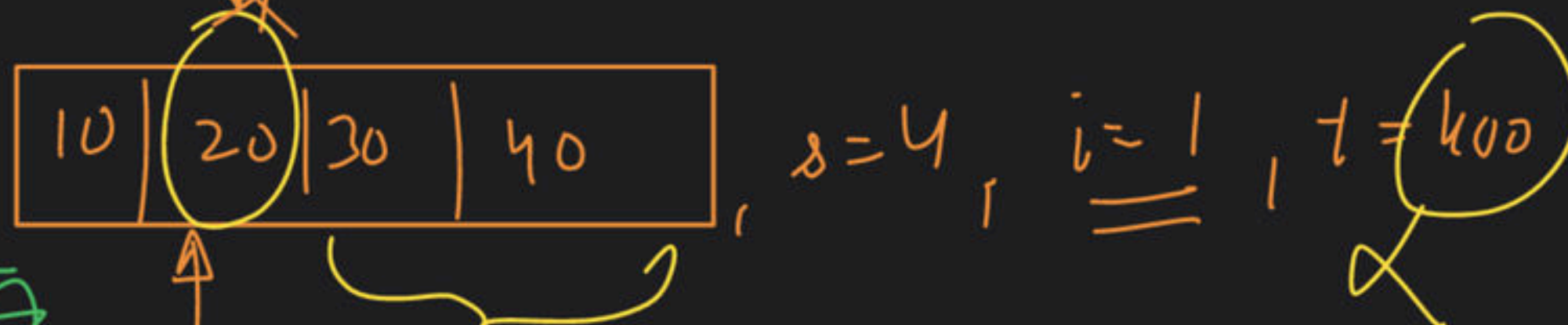
target = 50





10 | 20 | 30 | 40

target = 400



$s = 4$, $i = 4$
B.C - 1 Not found

max no in an Array

print
search

linear
traversal

Recursion

soln (arr, i+1)

iterative

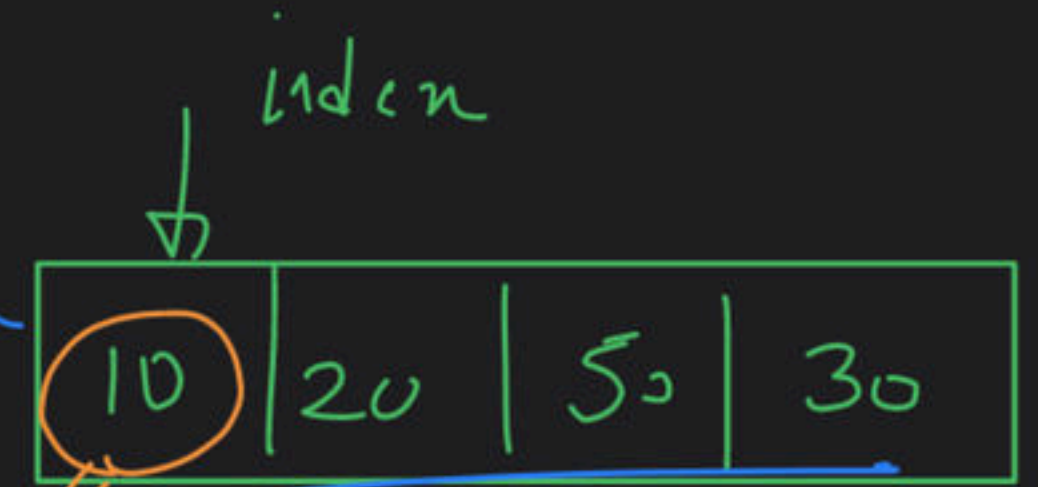
for (i=0; i<n; i++)

Recursion

mere

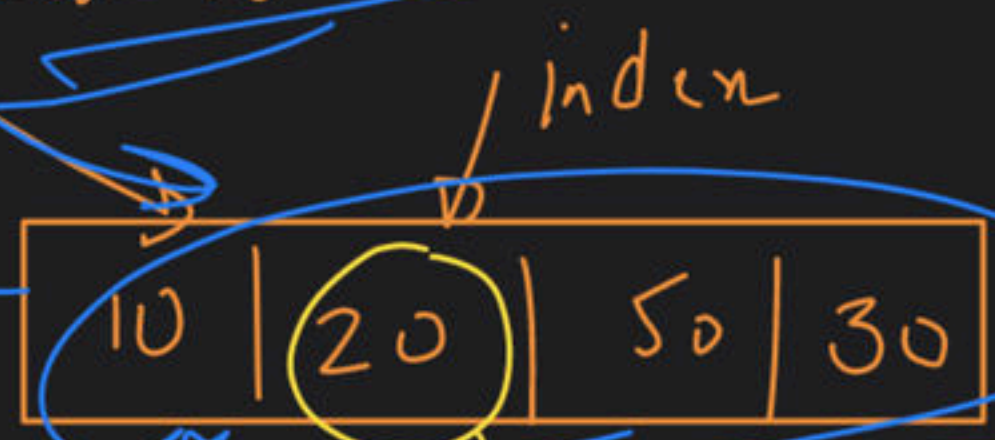
10	40	30	50	20
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Int &mini



mini = INT_MIN

mini = 10



mini = 10

mini = 20



mini = 20

mini = 50



mini = 50

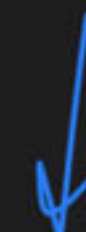
mini = 50

invalid index

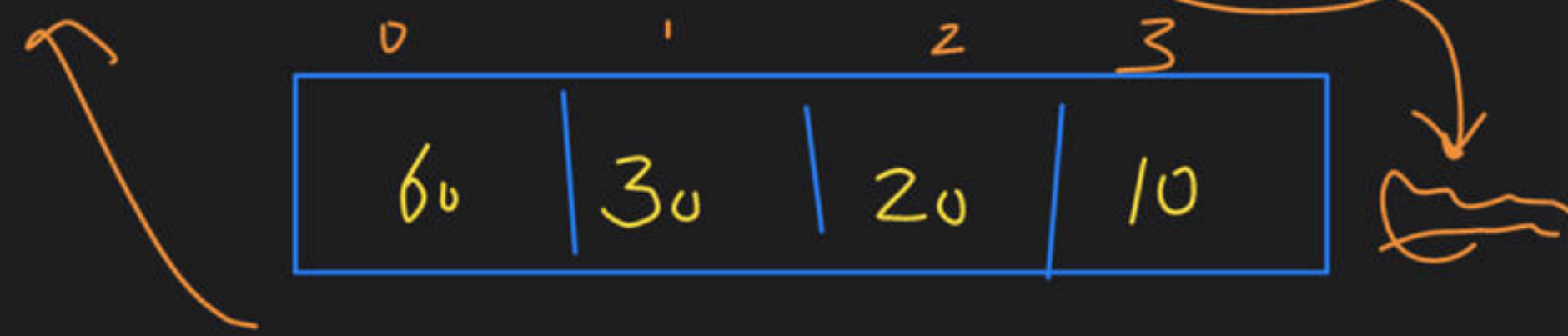
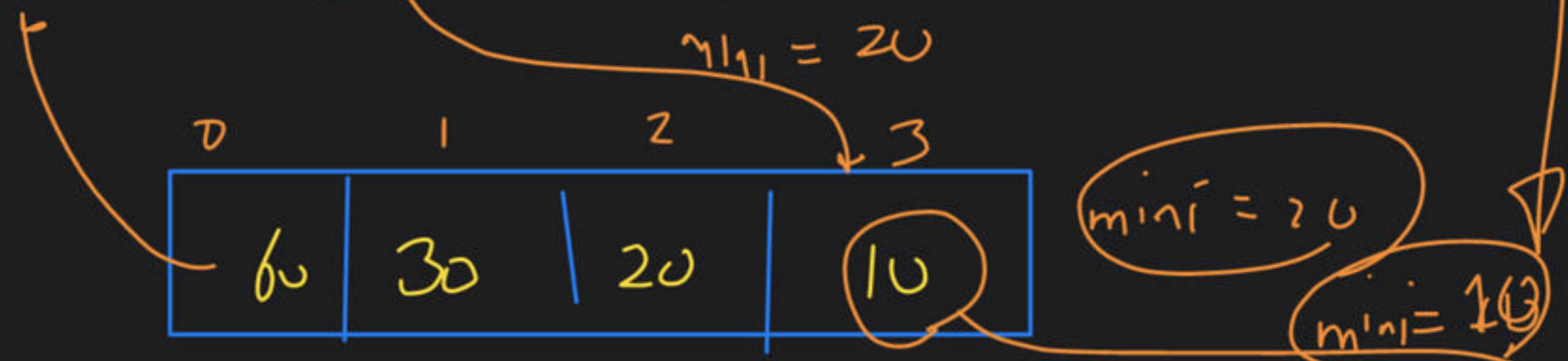
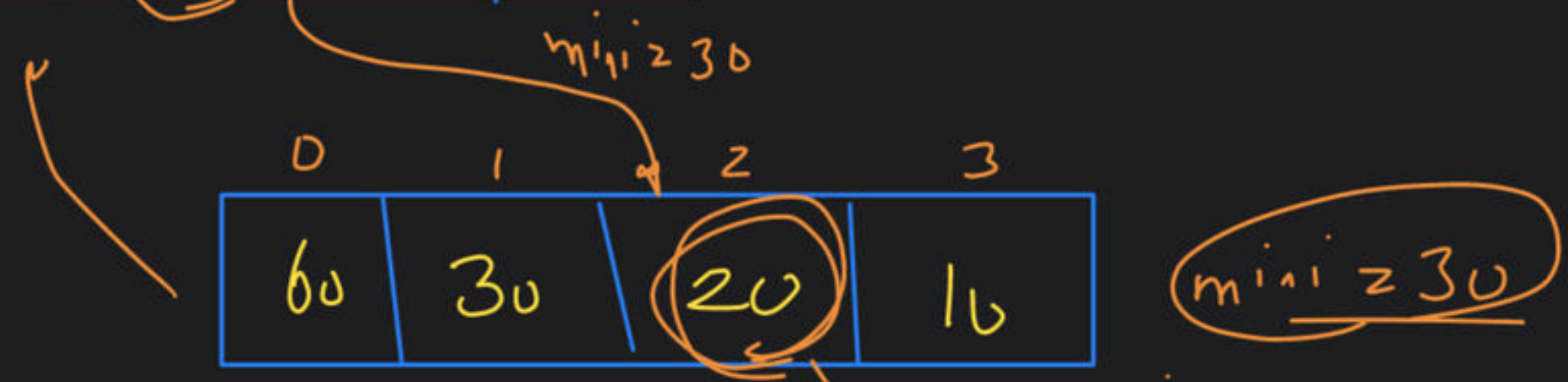
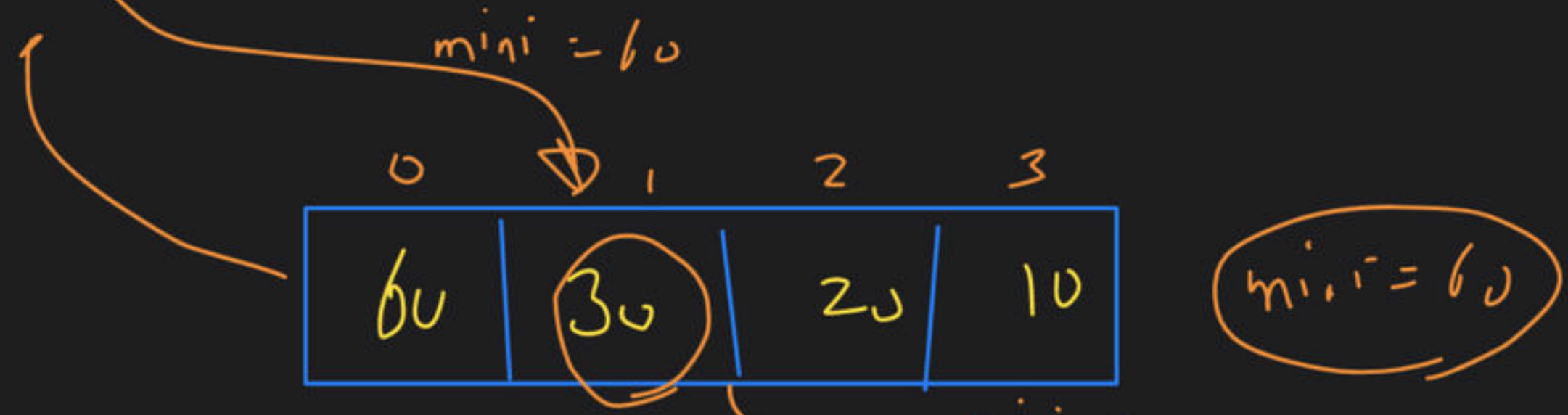
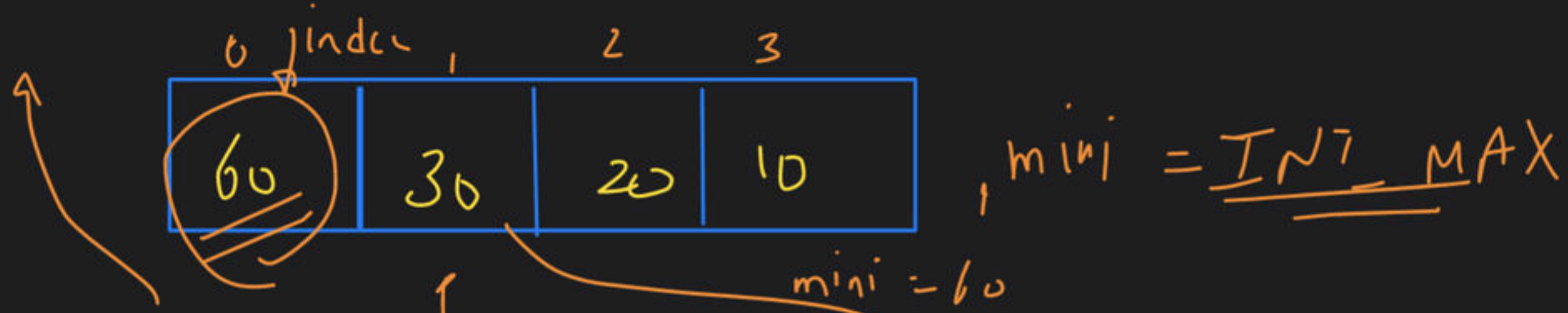
Min no in Array
=

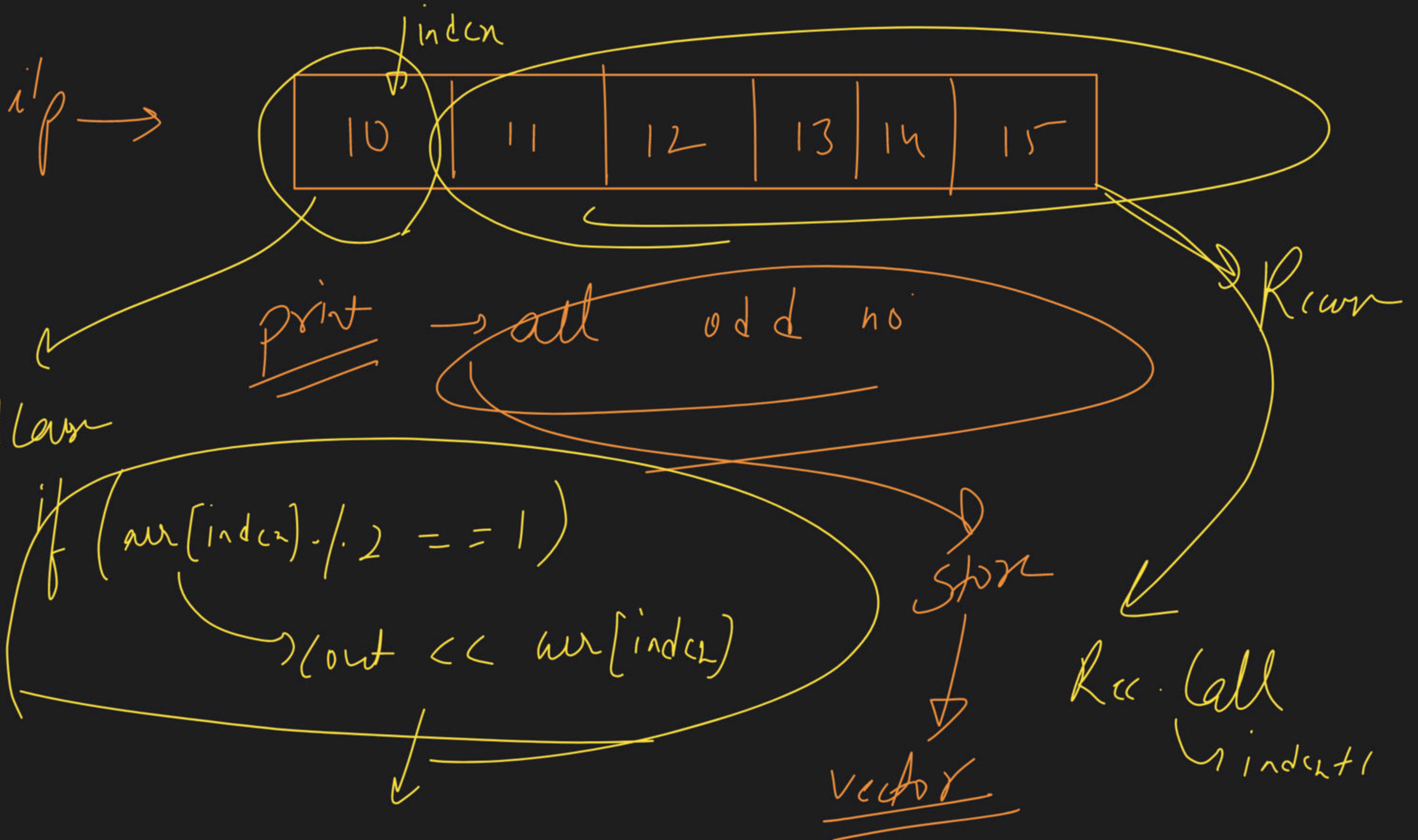
Recursive

9:26



9:29





inp ->

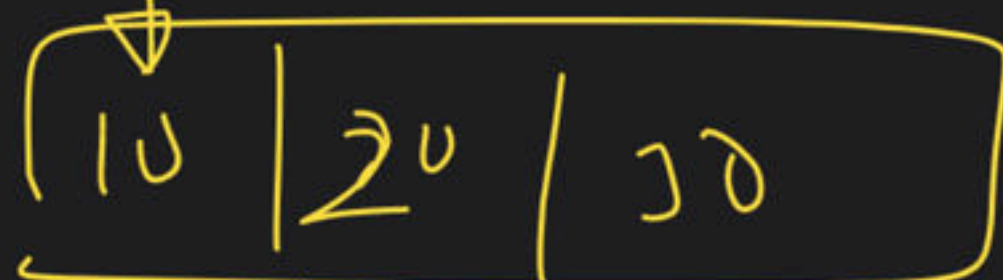
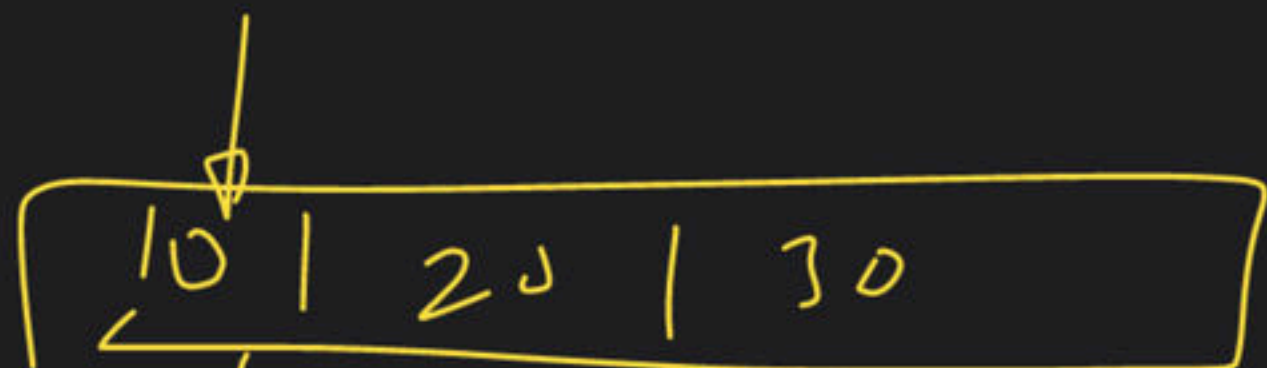
20	21	30	31	50	51
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size = 6

print all Even

q. 40

q. 43



index

arr

10	11	20	21	50	51	60
0	1	2	3	4	5	6

Rec
Rec
Call

if (arr[index] % 2 == 0)

cout << arr[index]

print ☐

search ☐

min ☐

max ☐

even ☐

odd ☐

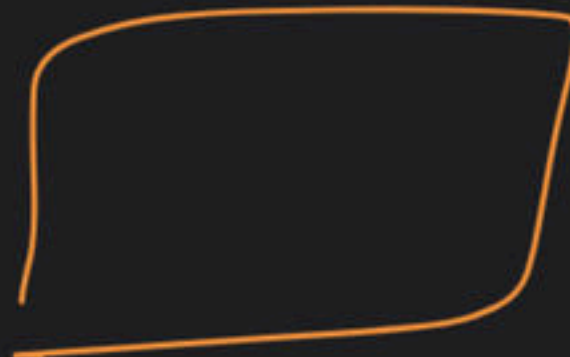
Binary Search

$s = 0$

$e = n - 1$

$mid = \frac{s + e}{2}$

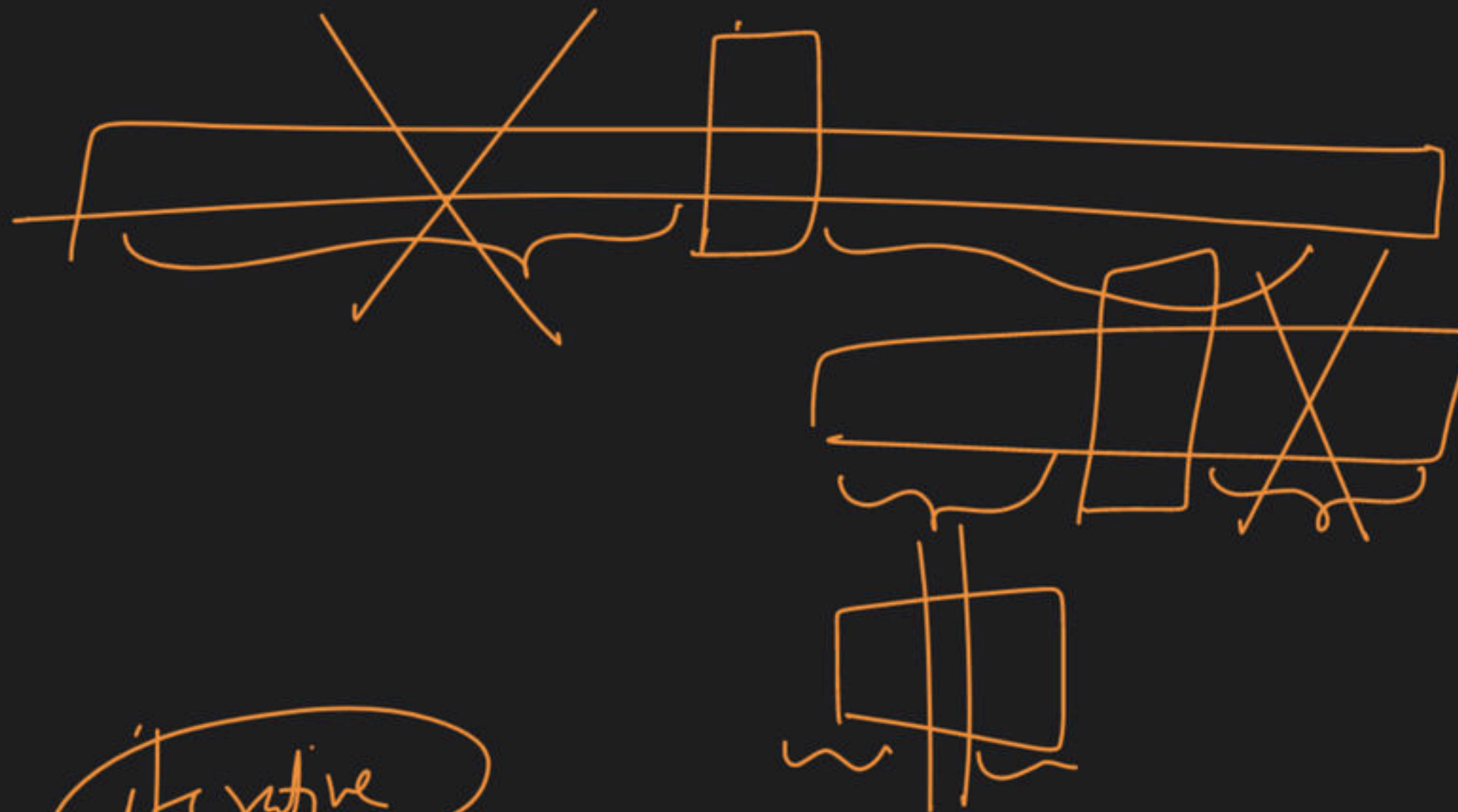
while ($s \leq e$)
{



left

right

mid 2

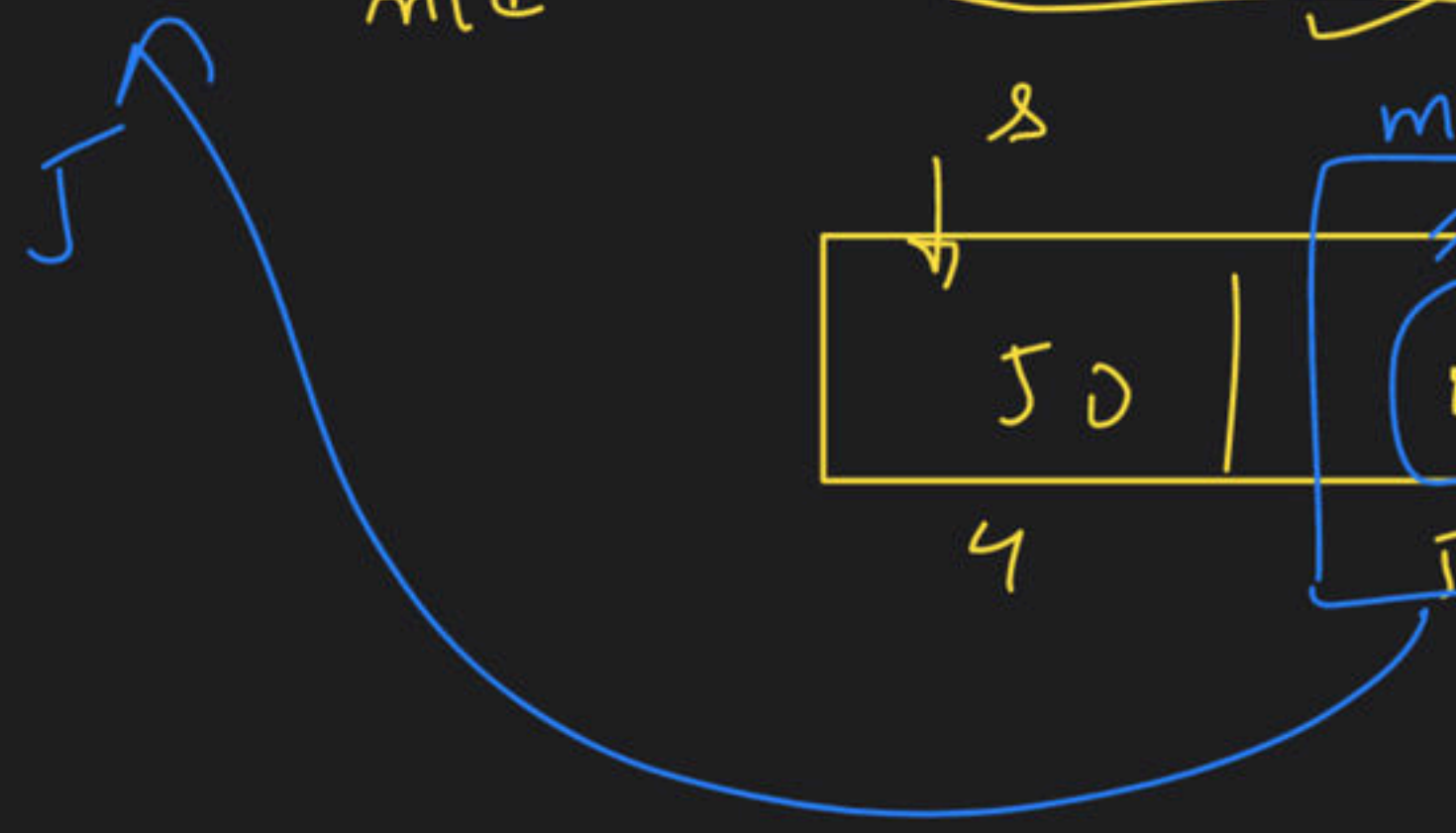


0

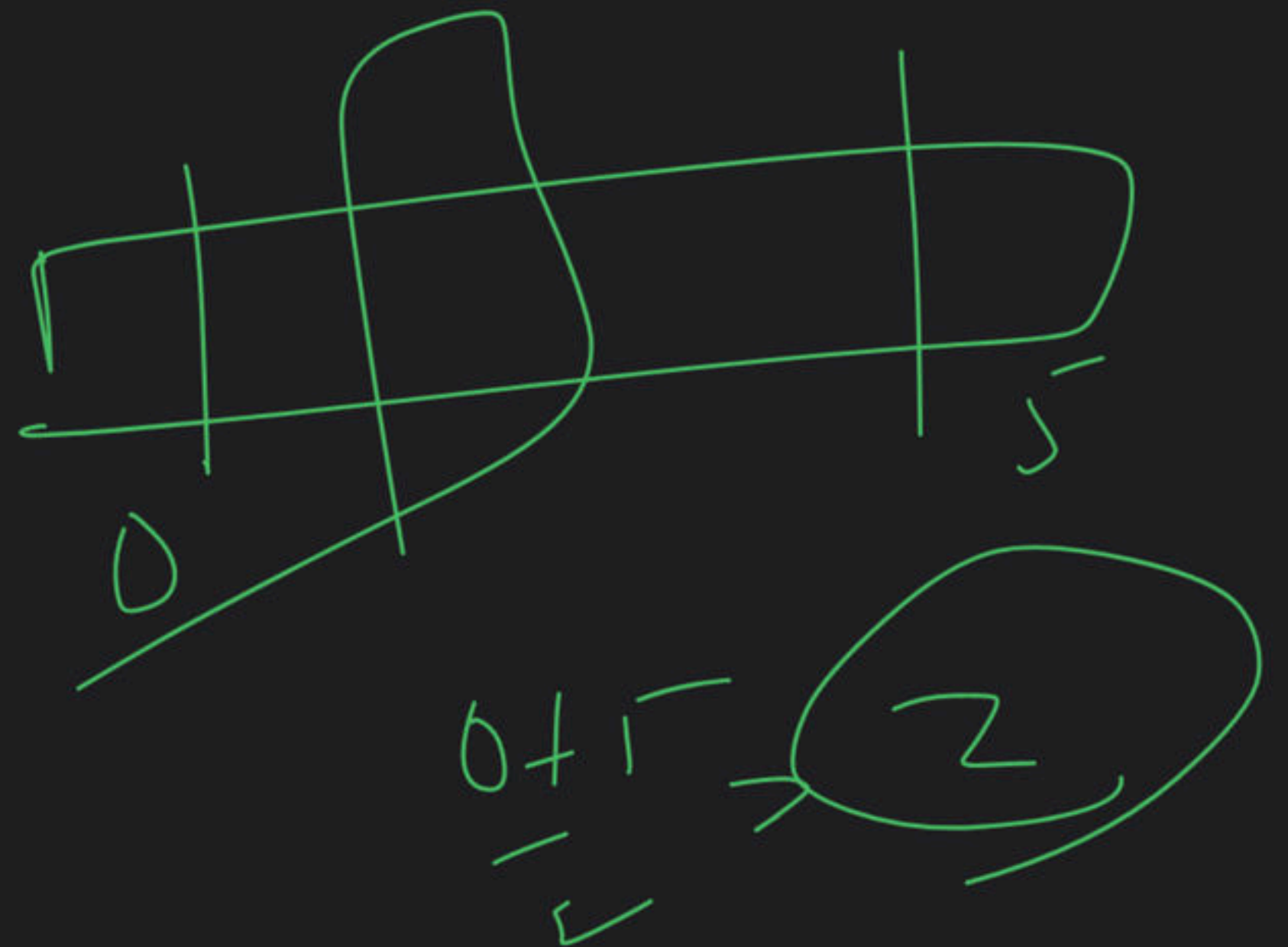
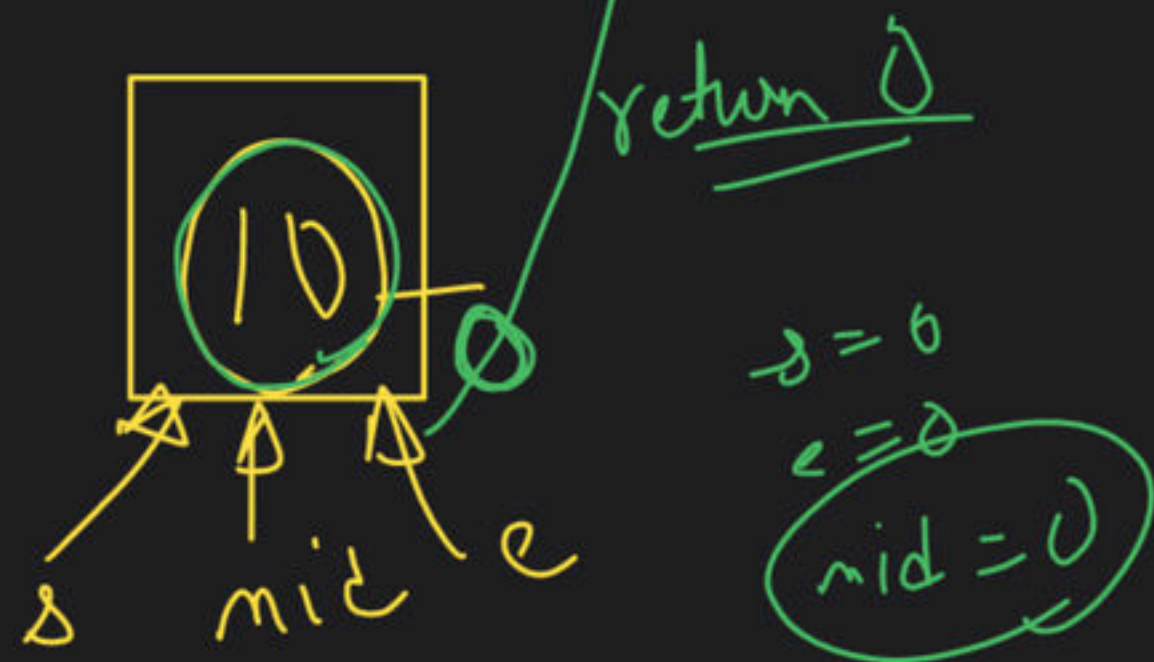
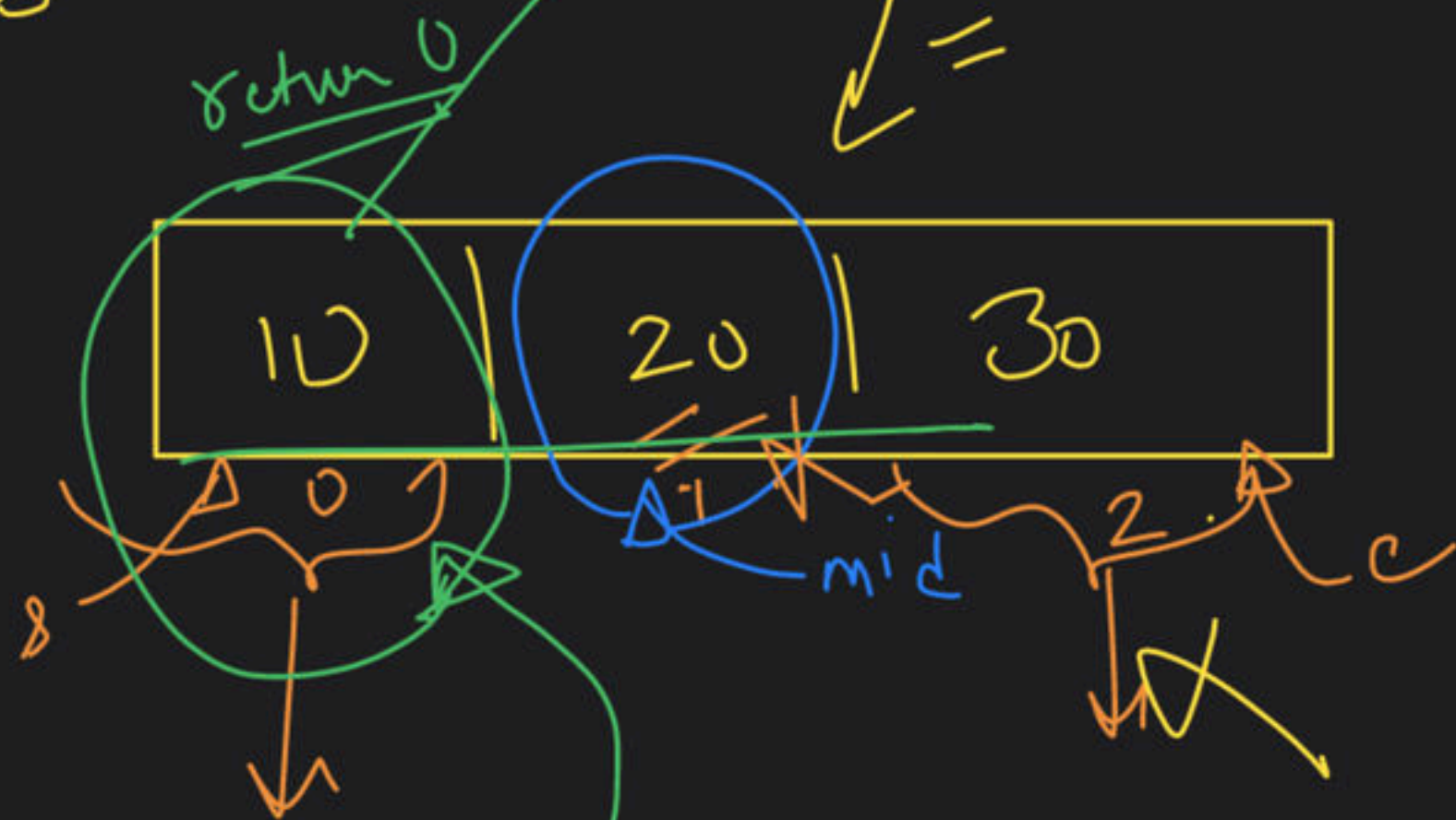
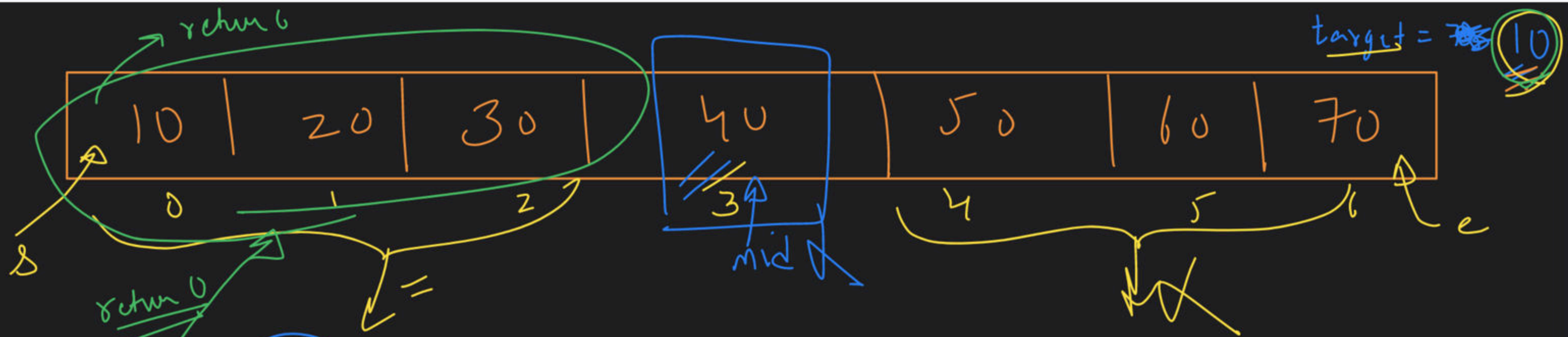
target = 60



s = 0
e = 6
mid = 3







i/p \rightarrow

num = ~~389~~

o/p \rightarrow

digit

~~3, 8, 9~~

389
o/p 10

9

389
10

38 o/p 10 \rightarrow 8

38
10

3 o/p 10 \rightarrow 3

Rec

389 % 10

→ 9

print

divide 10

38 % 10

→ 8

divide 10

3 % 10

→ 3

divide 10

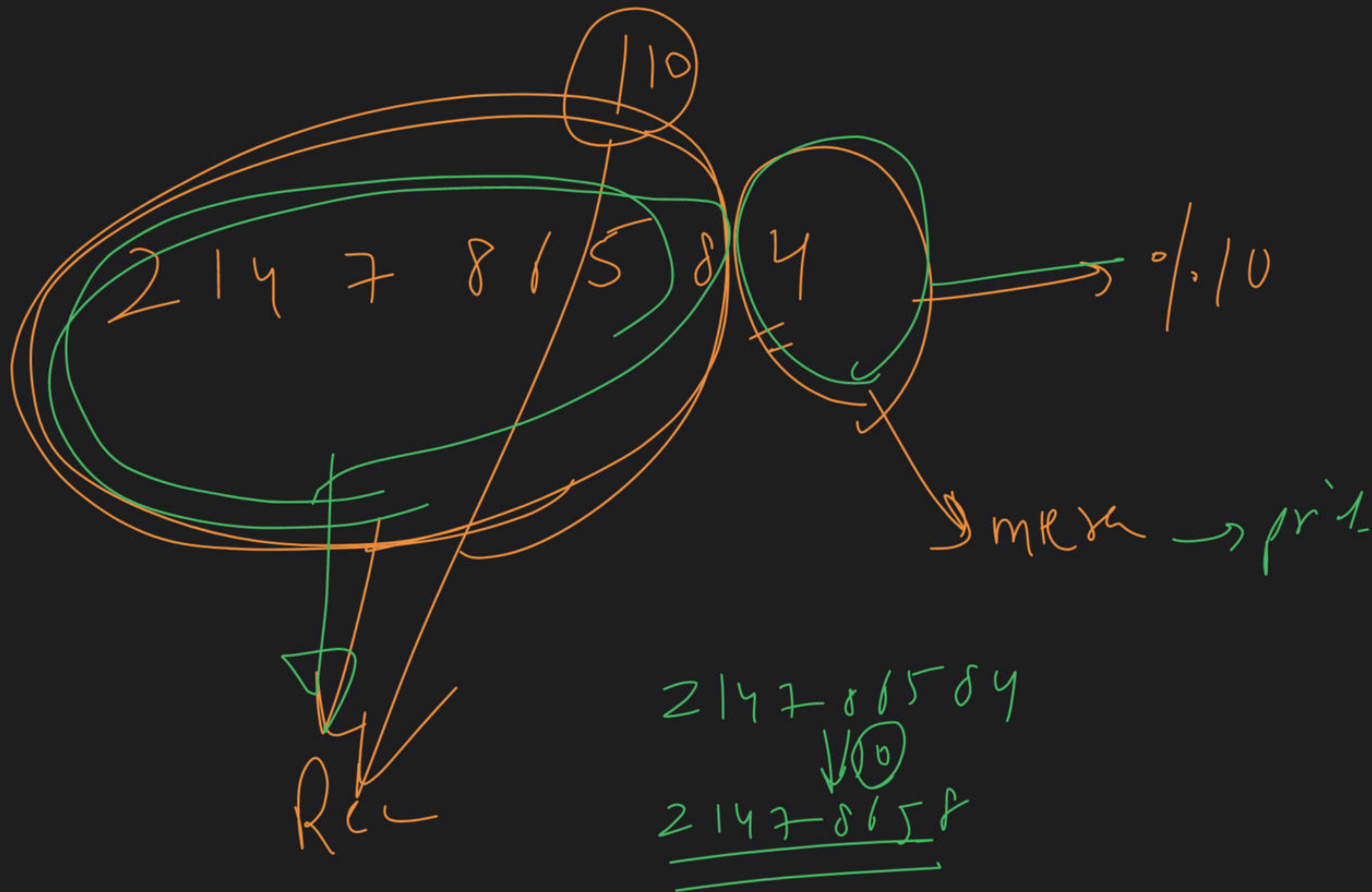
0

return ga.

100%

Rec

3 8 9



i/p →

10	20	30	40	45	50	15
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T/F

array is sorted
or not

2pm → class
Kor

























