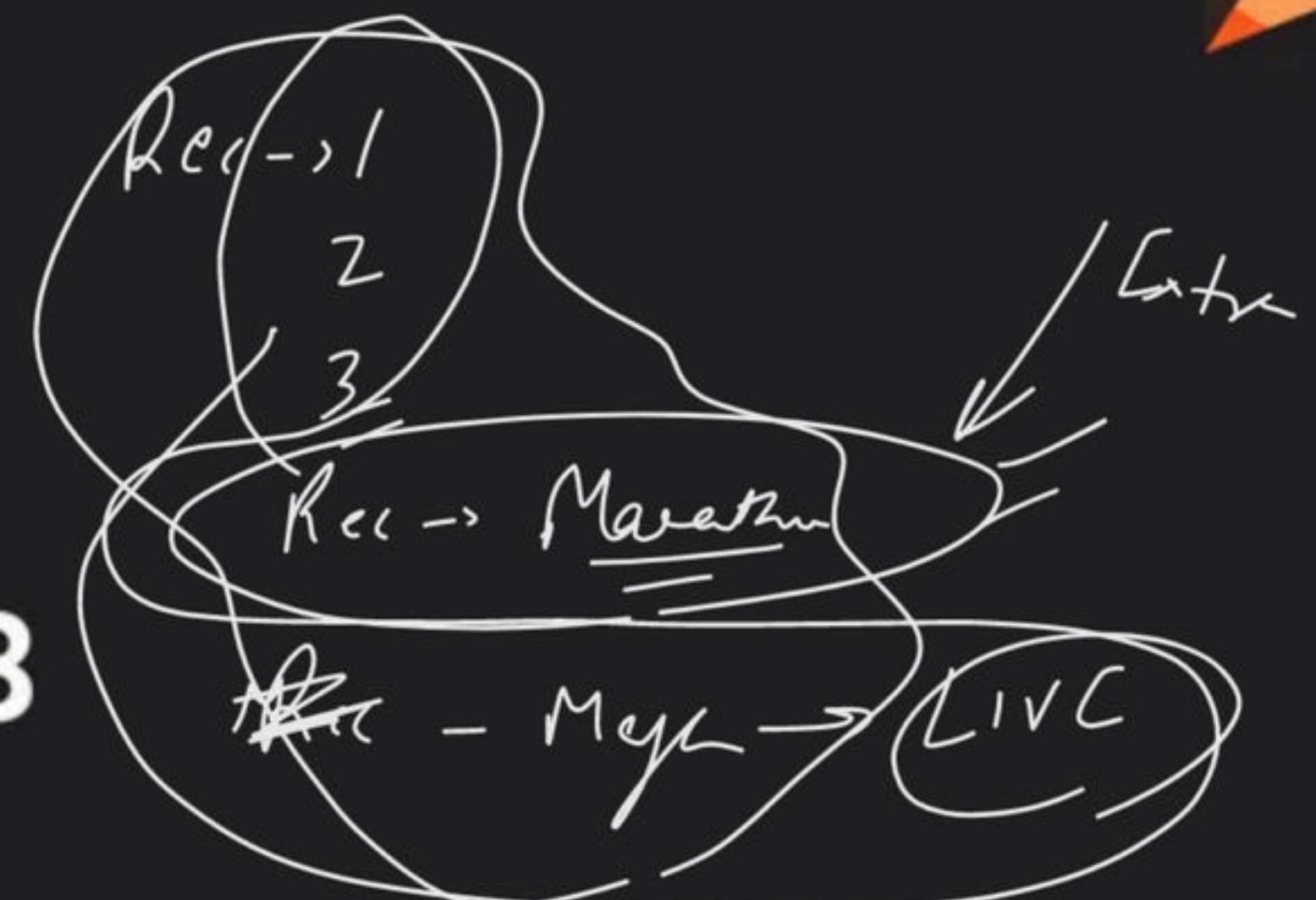
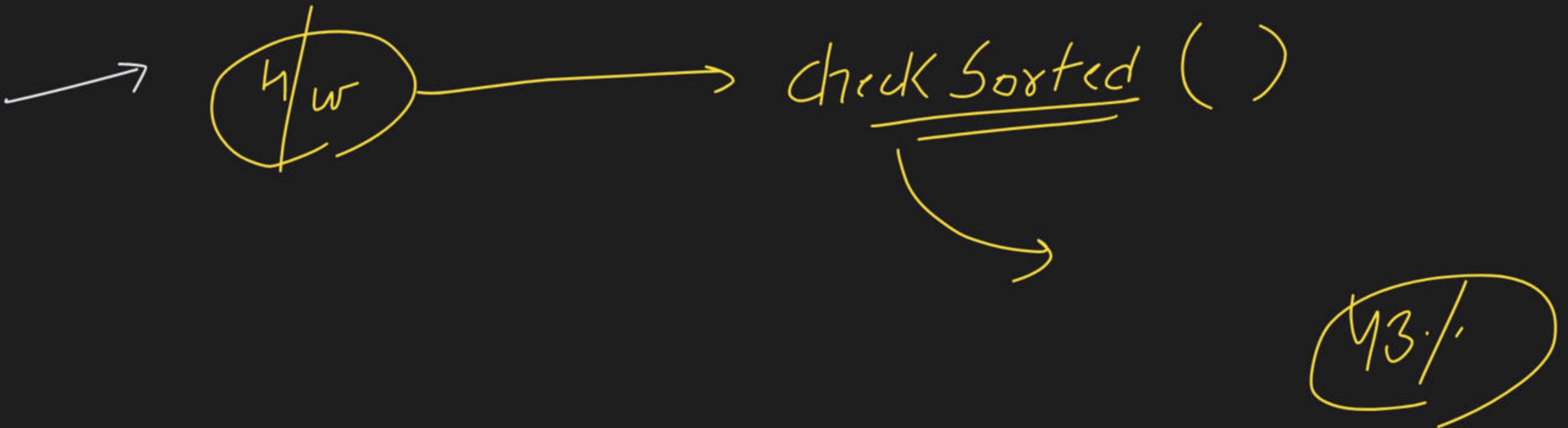
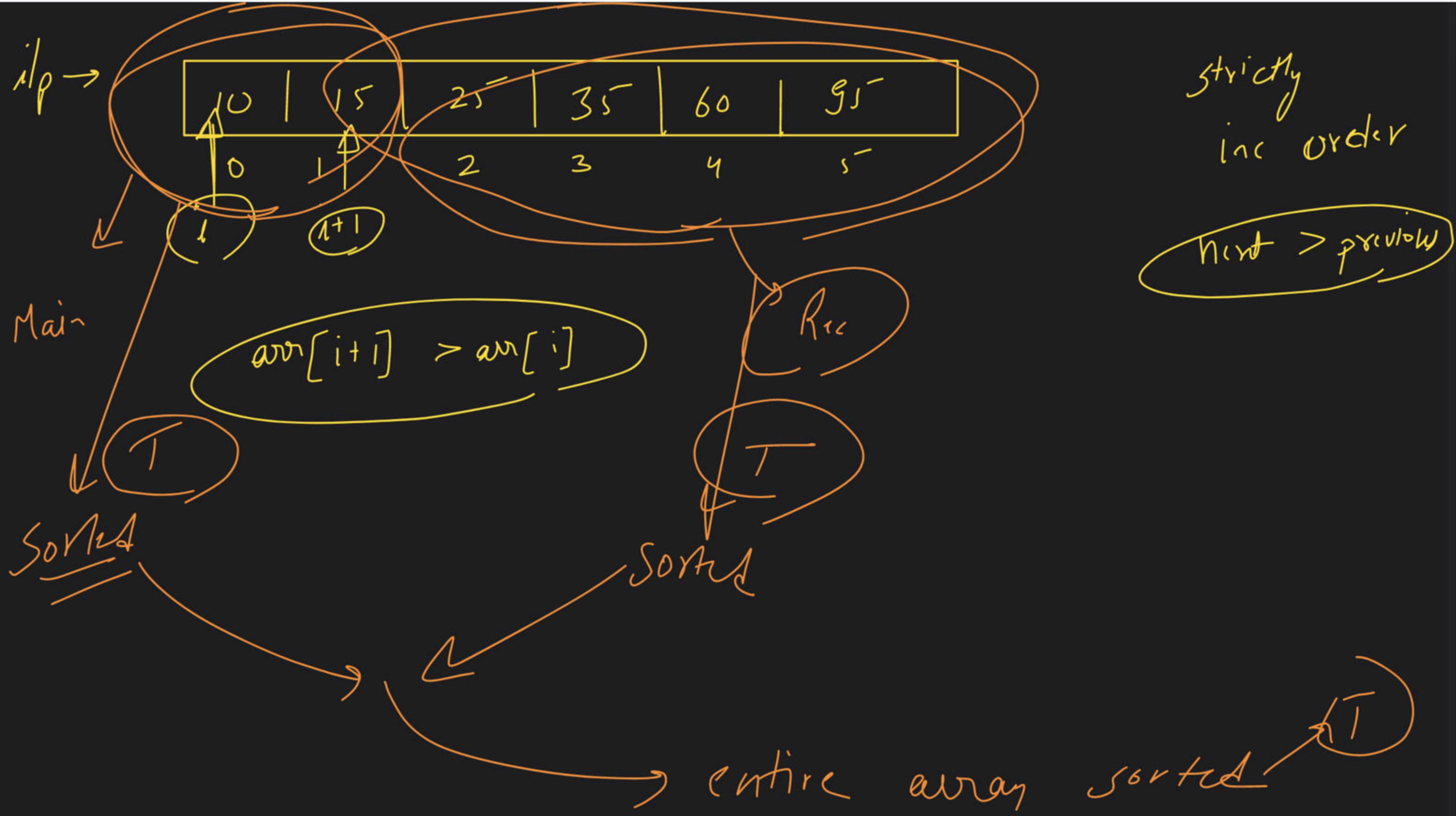


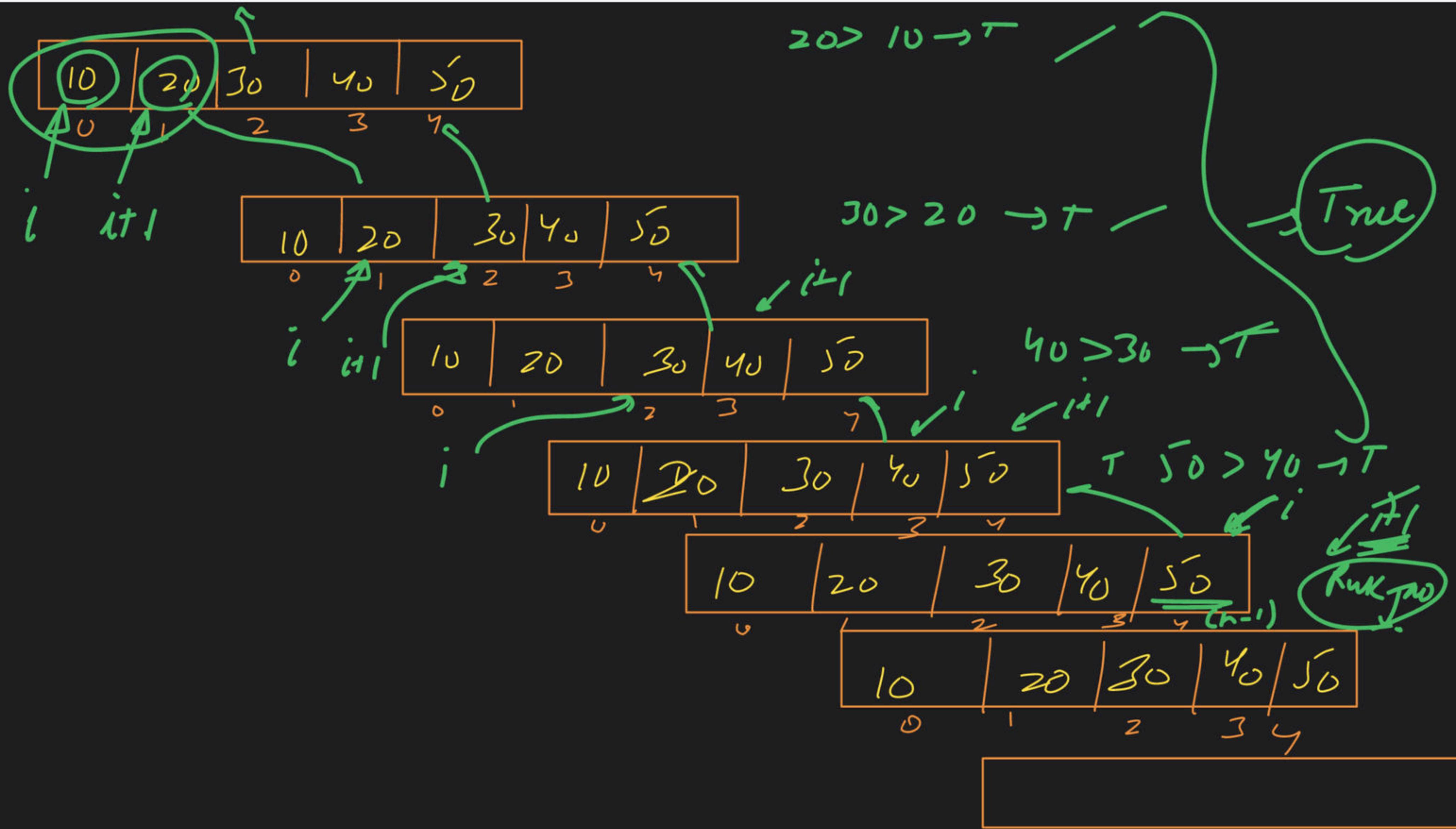
Recursion Class - 3

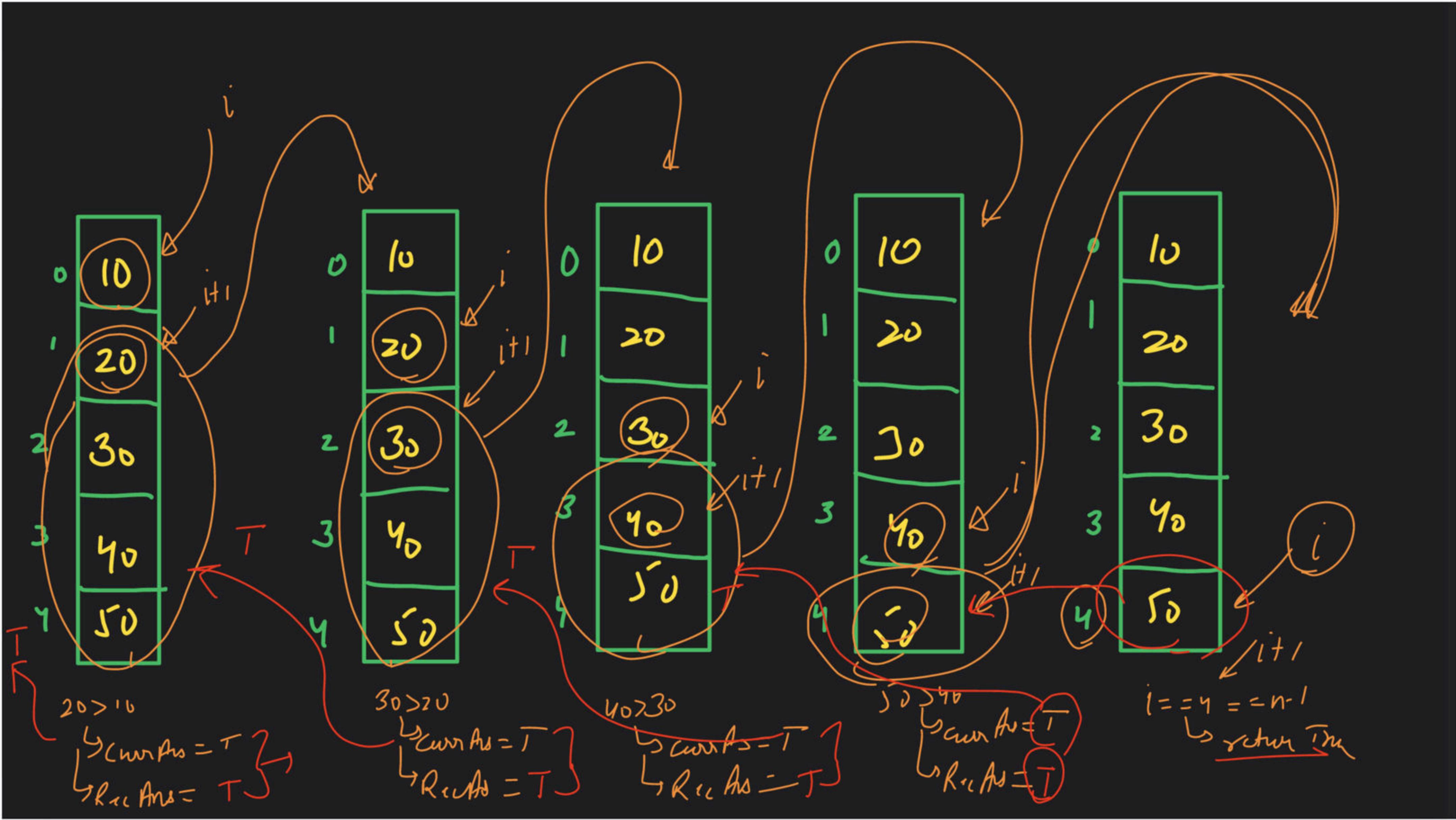
Special class











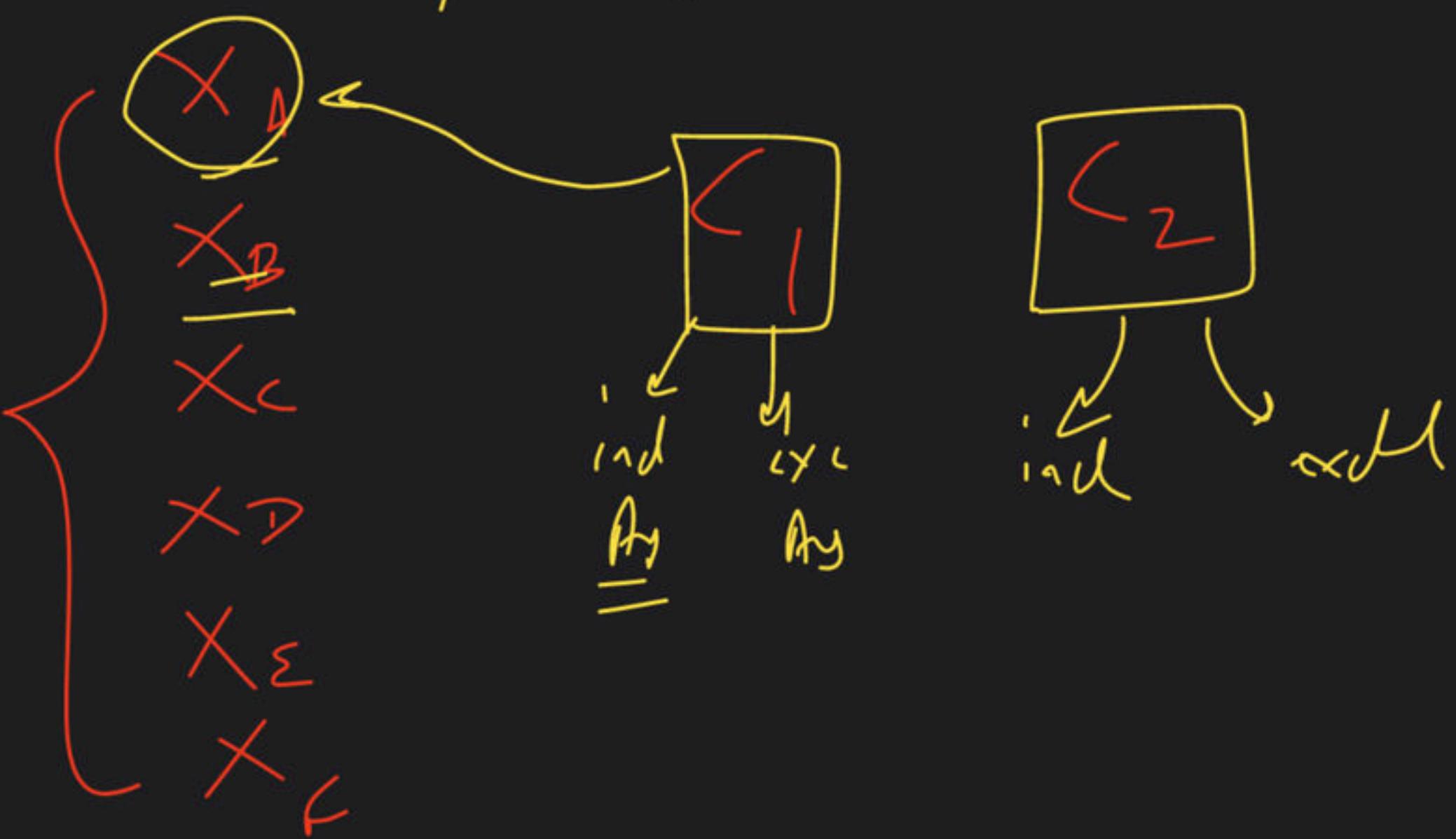
descending order

Include / Exclude

Excl A → incl A

take / not take

Pick / not take

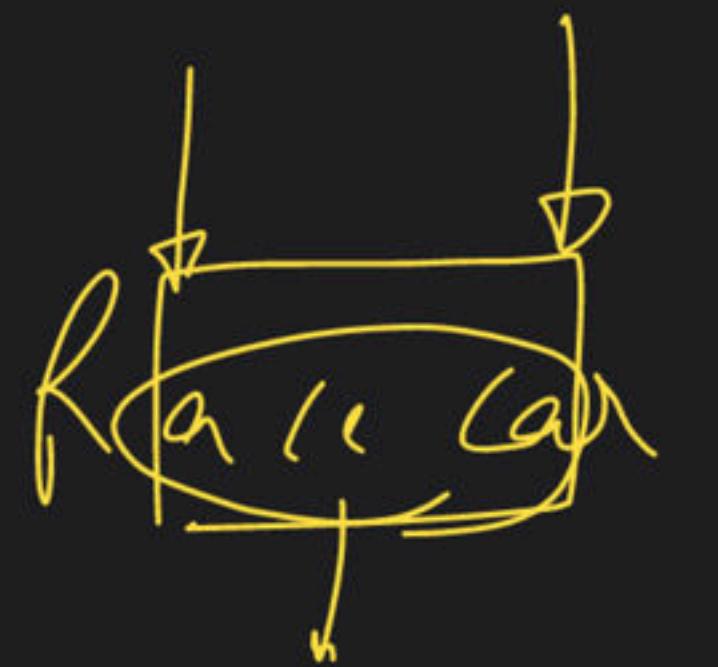


late / match

String



Sinister



Sinister

Subsequence

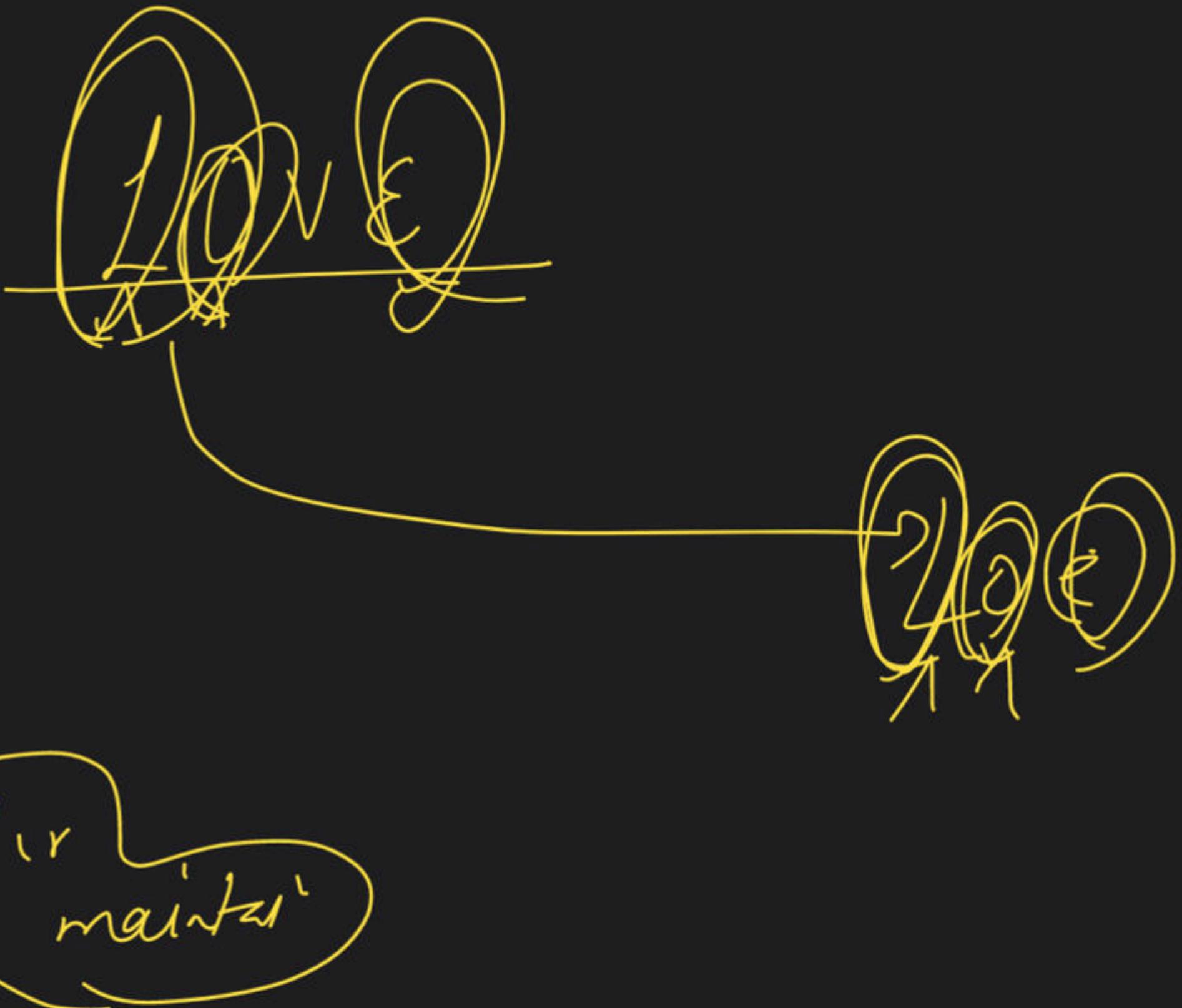
ch

inle
excl

continow

cond'

order
maintai'



$a b c \rightarrow$ $\underline{a}, \underline{b}, \underline{c}, \underline{ab}, \underline{bc}, \underline{ac}, \underline{abc}$

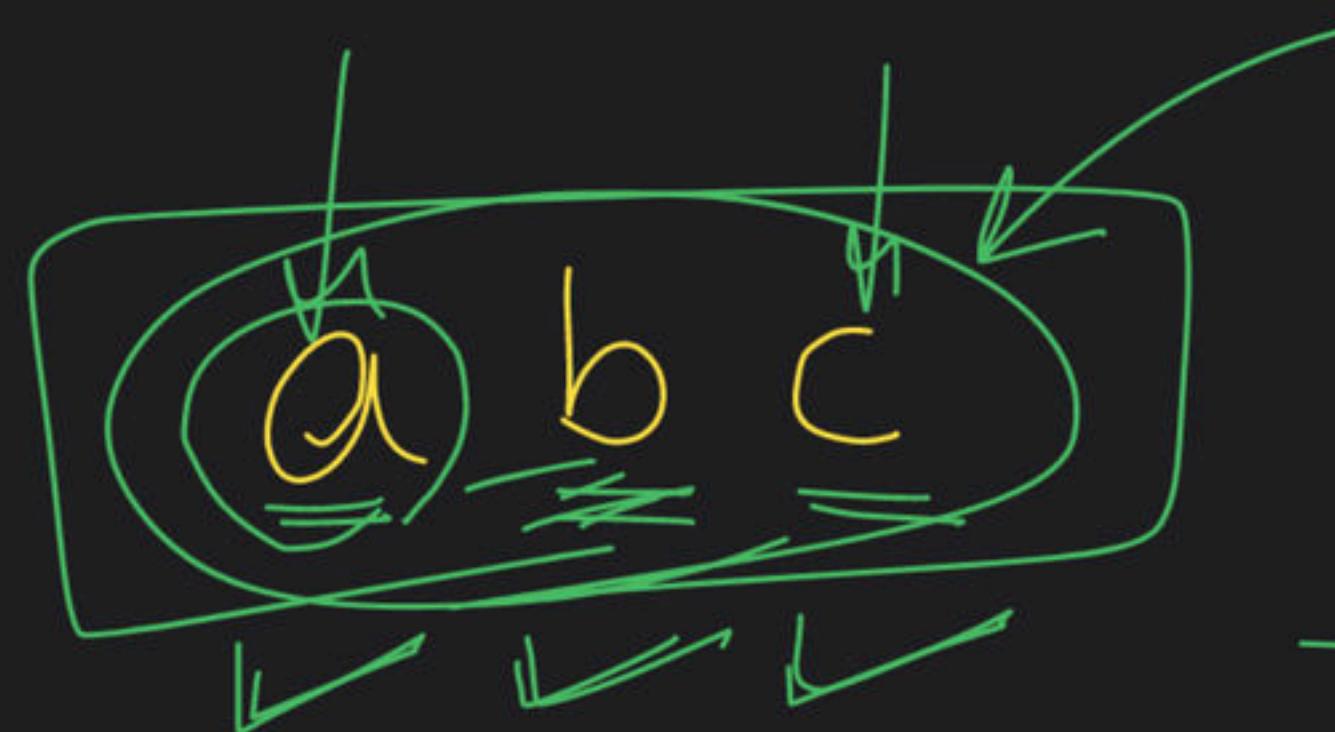
3

story
lym → n

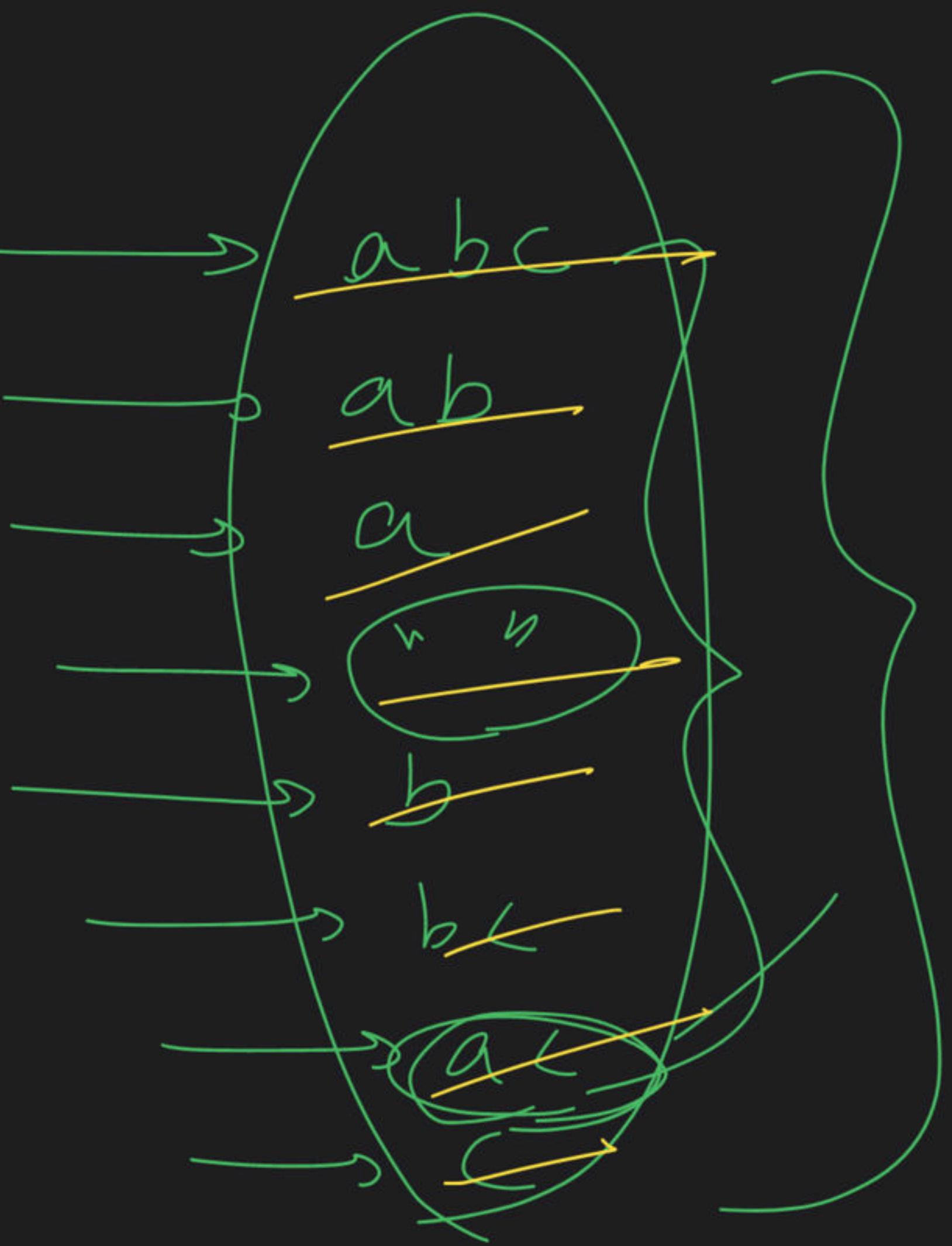
$\mathcal{D}^n \rightarrow$

$z^3 \rightarrow \emptyset$

inc/exc

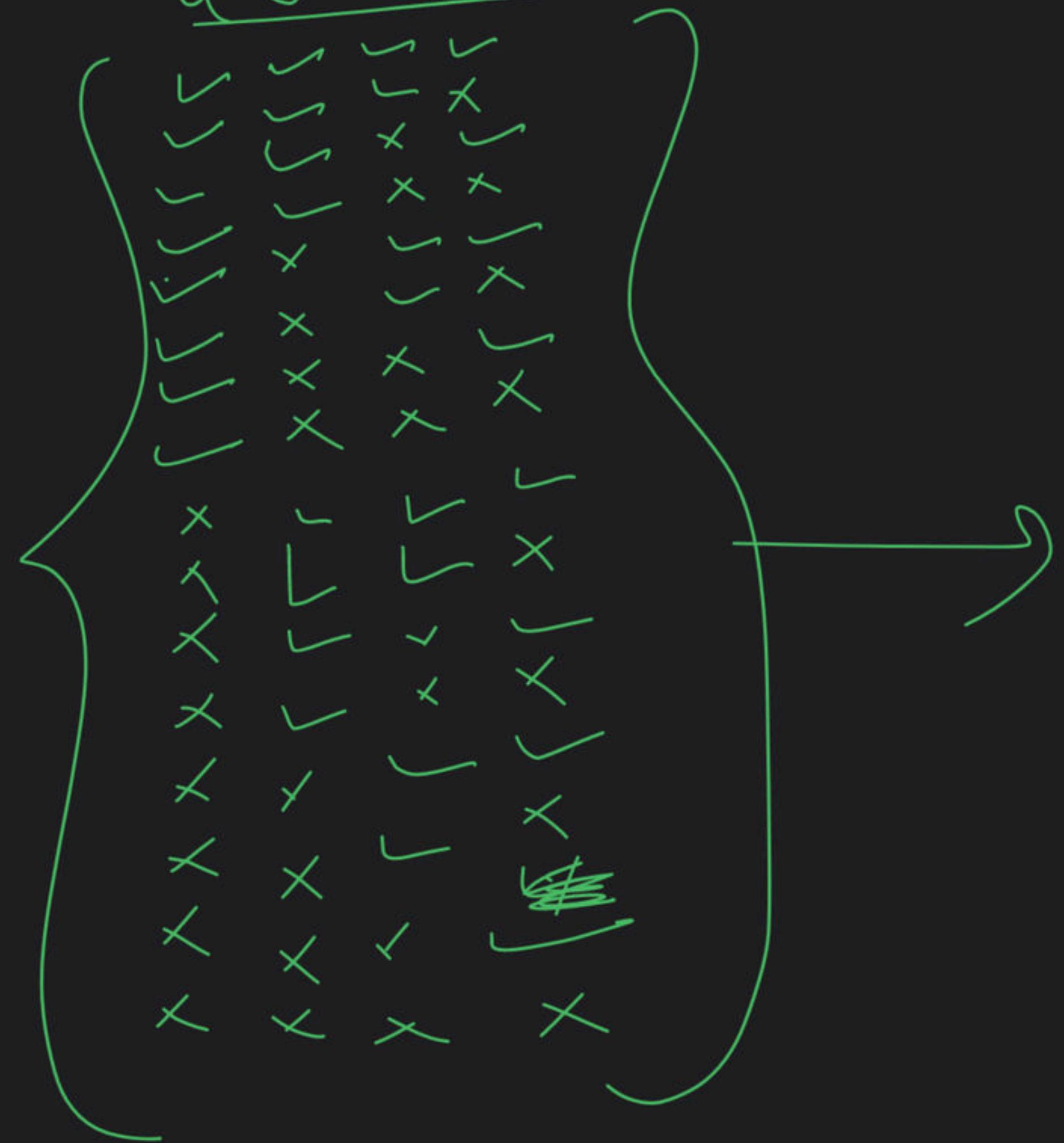


✓	✓	✗
✗	✗	✗
✗	✗	✗
✗	✓	✗
✗	✓	✓
✓	✗	✓
✗	✗	✓

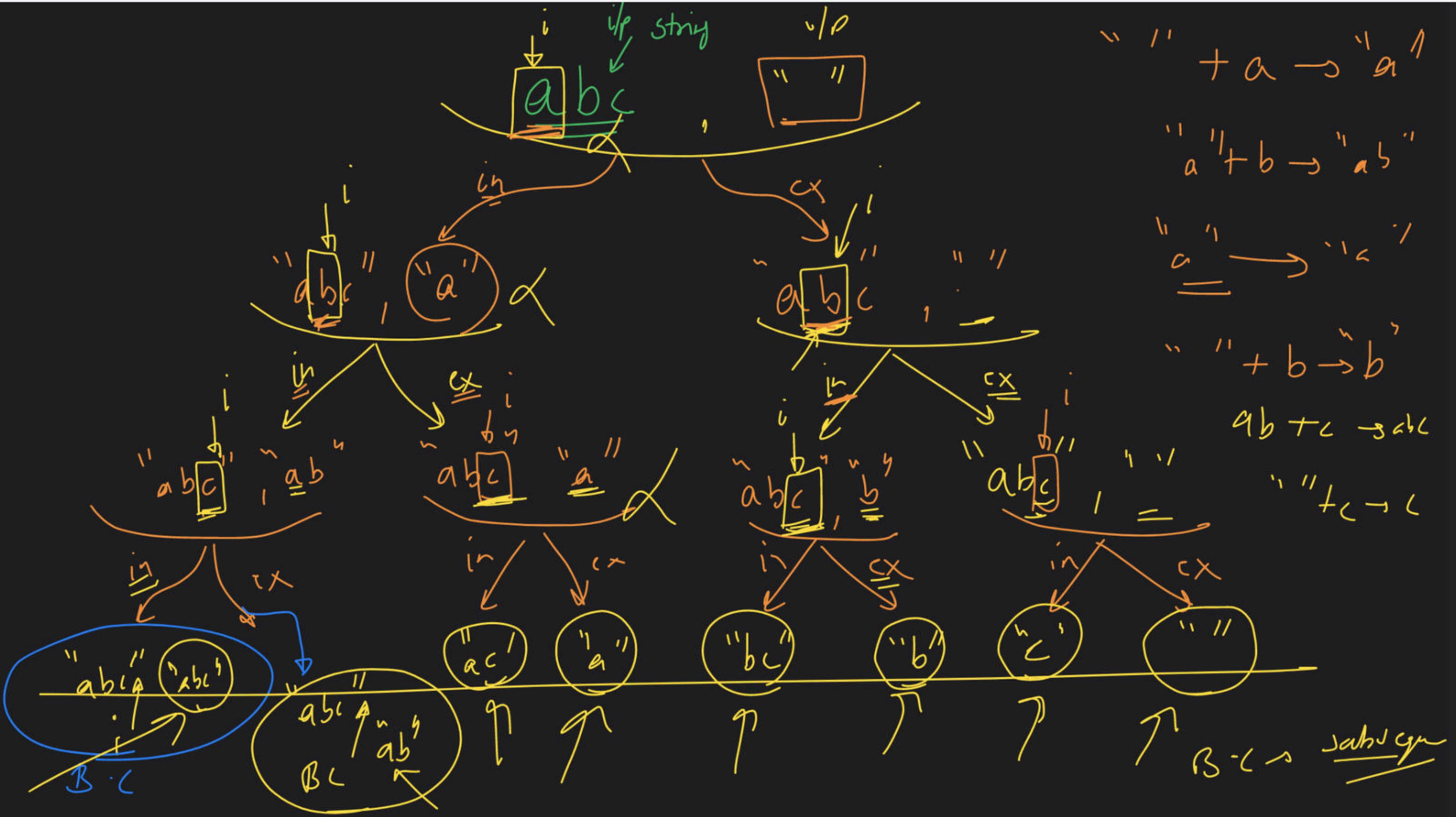


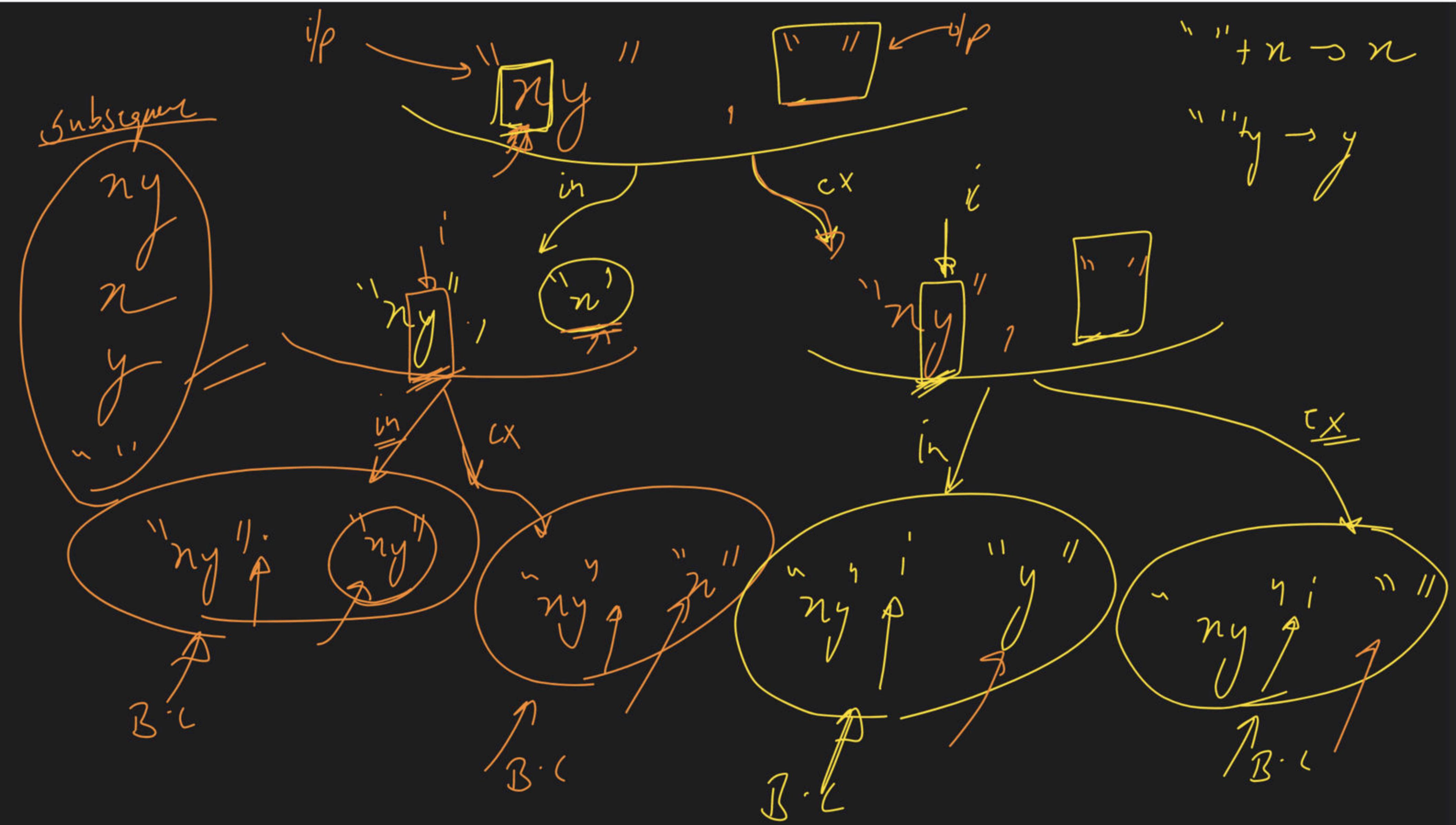
Pick / not pick

love

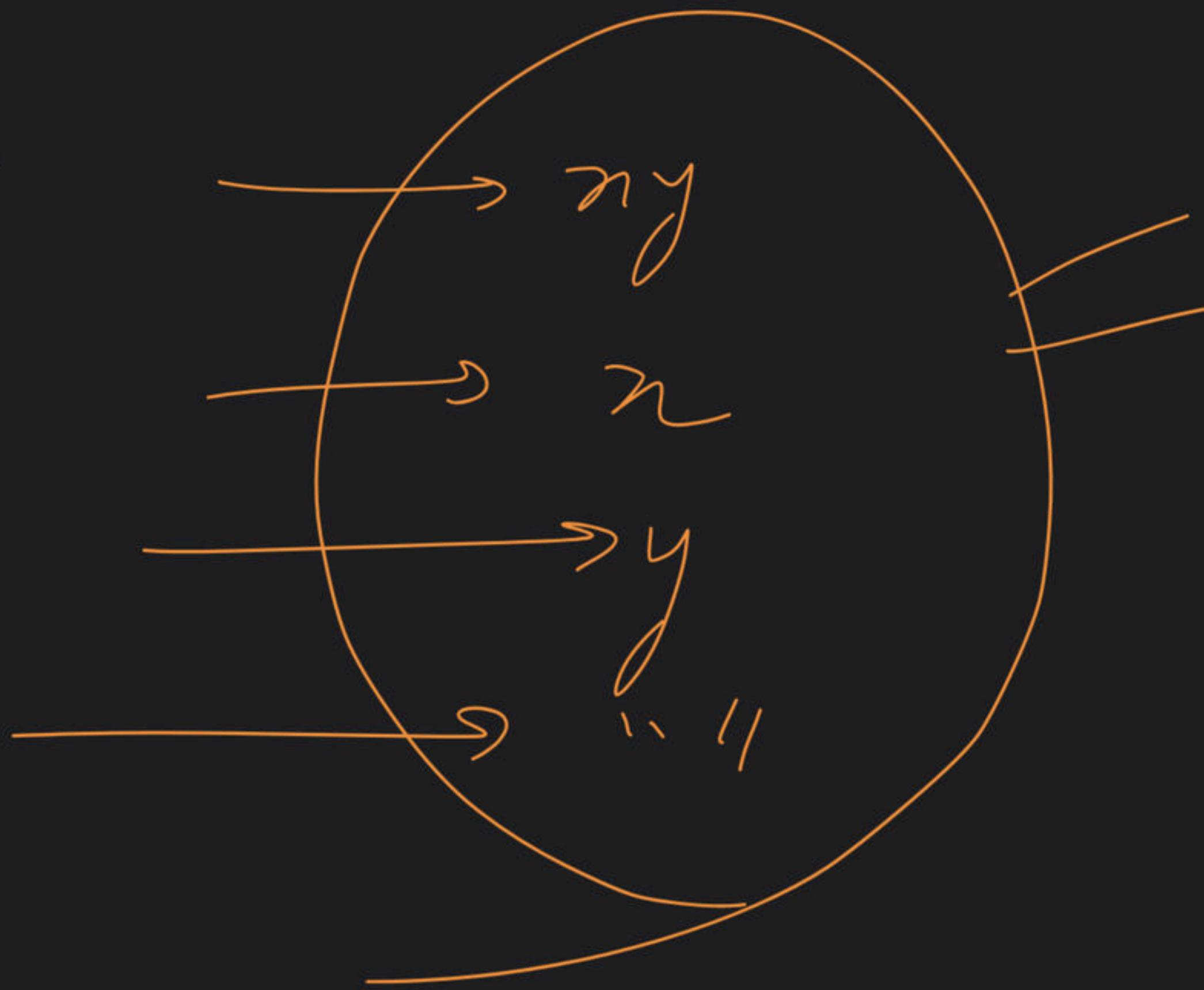


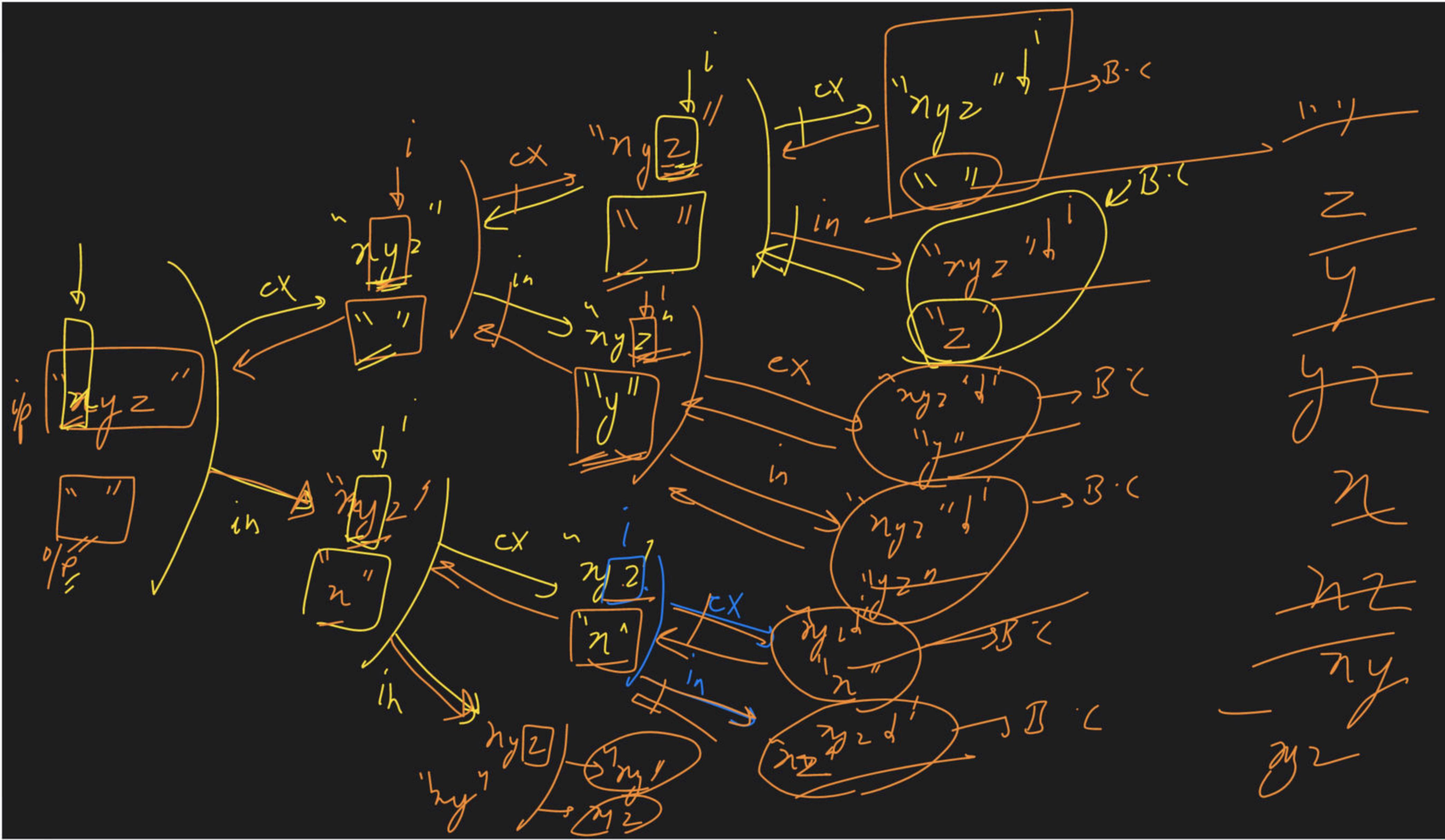
$\rightarrow 4 \rightarrow 2^7 \rightarrow 16$



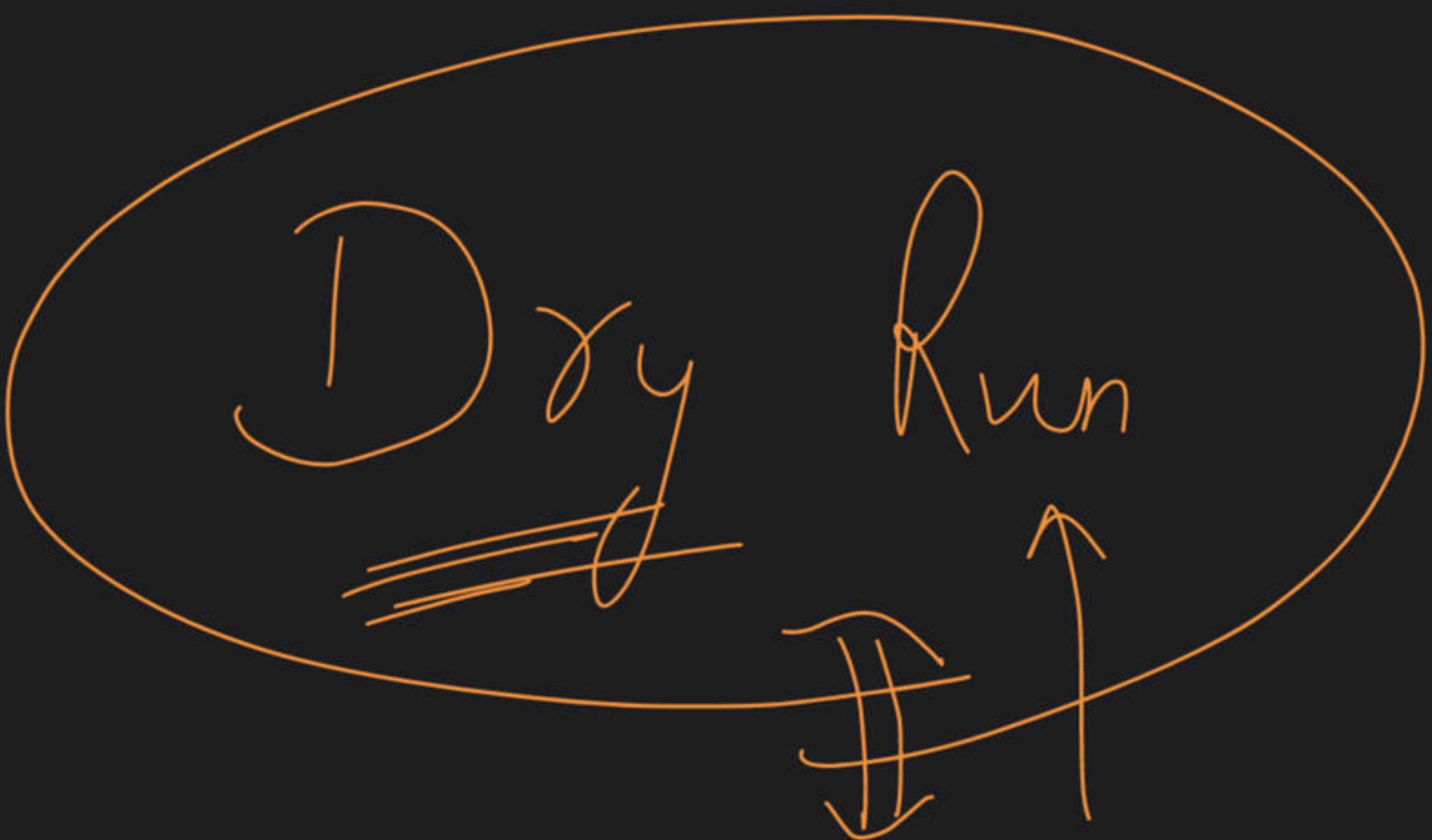


n y
✓ ✓
✓ x
 x ✓
 x x





4 - 5 → Dry Run



V. V U W



10

2 min

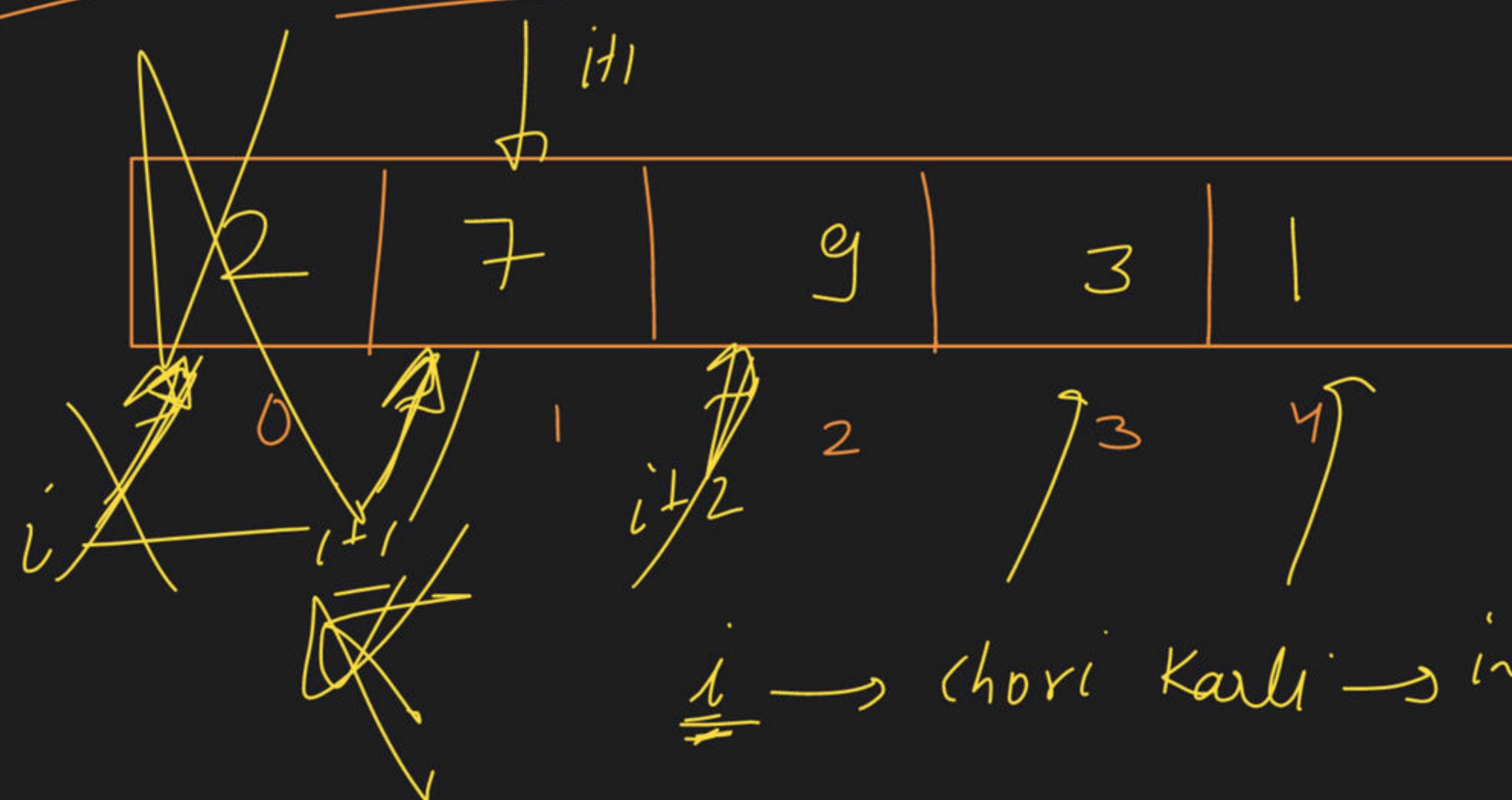
Paahl

Break

House Robber

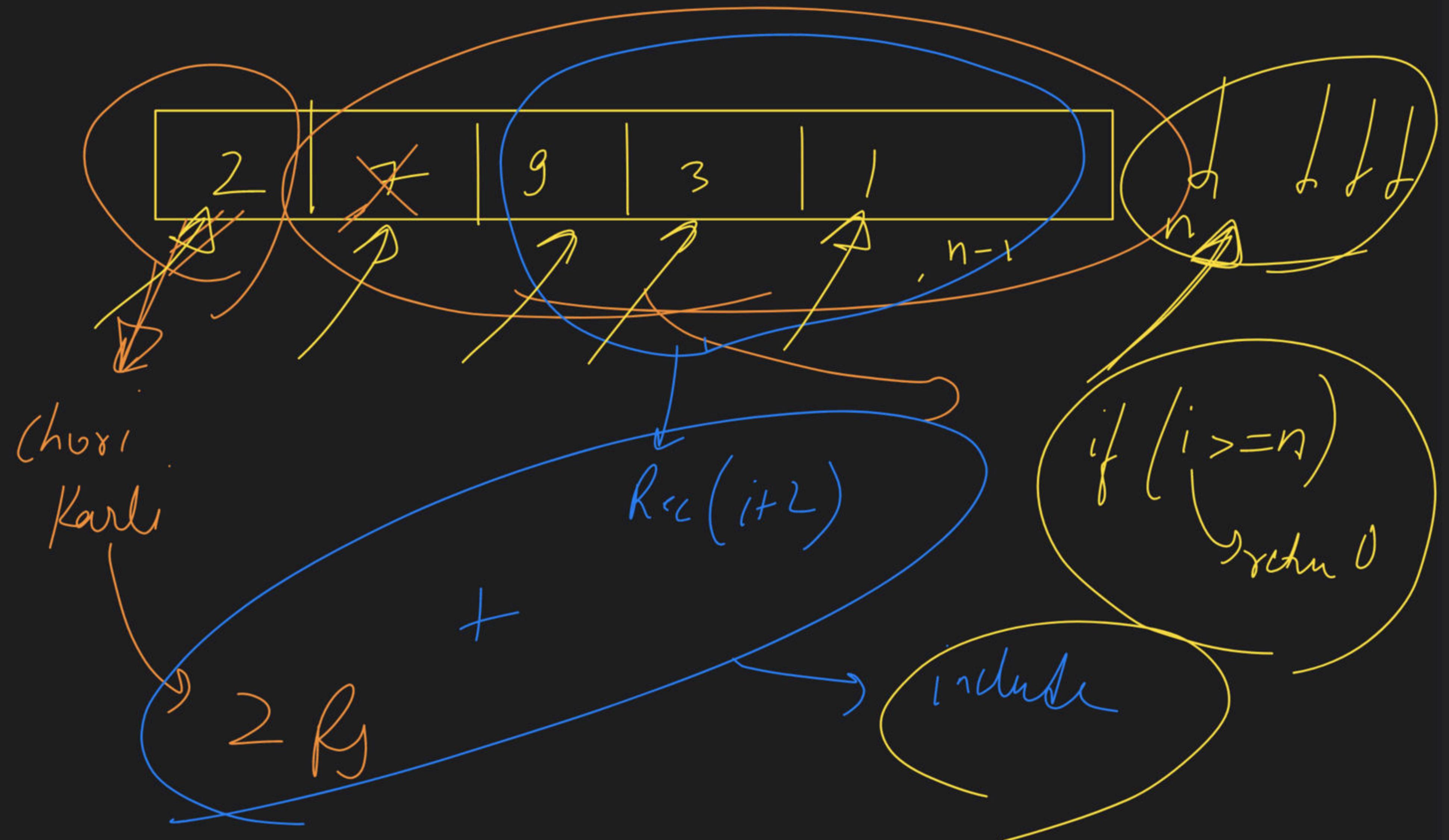
B.C

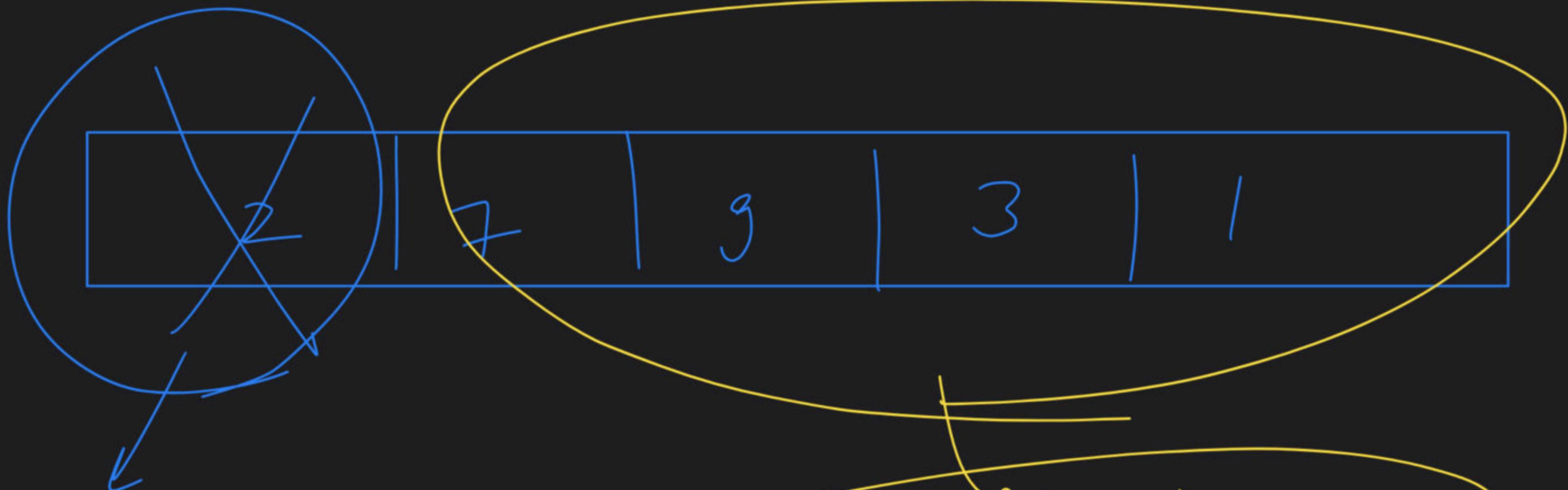
OK



i → chori karli → inc → i+2

i → chori nahi → exc → it/
Karts





Chon nahí

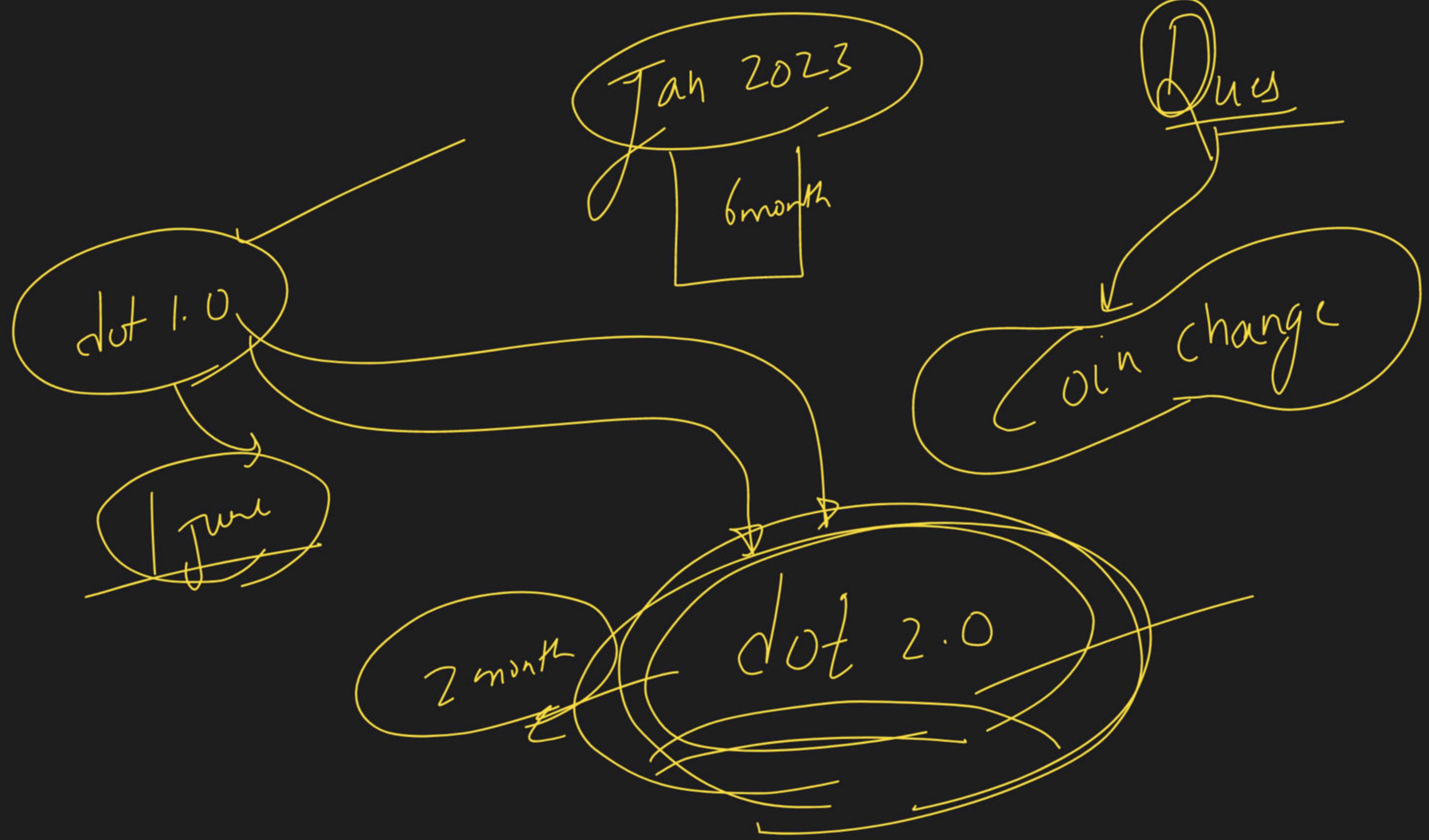
Kari

WORKS

+

Ric (i+1)

exclude A



9 min
Paul Bresk

→ Coin Change:-

coins → 2, 5, 1

Amount → 6 Rs
=

$$2+2+2 \rightarrow 6$$

$$| + | + | + | + | + | = 6$$

$$5 + 1 \longrightarrow 6$$

$$2+2 + 1+1$$

$$2+2+2 \rightarrow ?$$

$$2+2+1+1 \rightarrow ?$$

$$2+1+2+1 \rightarrow ?$$

$$2+1+1+2 \rightarrow ?$$

$$2+1+1+1+1 \rightarrow ?$$

$$5-1 \rightarrow ?$$

$$5-2 \rightarrow ?$$

$$5-3 \rightarrow ?$$

$$5-4 \rightarrow ?$$

$$5-5 \rightarrow ?$$

$$5-6 \rightarrow ?$$

$$5-7 \rightarrow ?$$

$$5-8 \rightarrow ?$$

$$5-9 \rightarrow ?$$

$$5-10 \rightarrow ?$$

$$5-11 \rightarrow ?$$

$$5-12 \rightarrow ?$$

$$5-13 \rightarrow ?$$

$$5-14 \rightarrow ?$$

$$5-15 \rightarrow ?$$

$$5-16 \rightarrow ?$$

$$5-17 \rightarrow ?$$

$$5-18 \rightarrow ?$$

$$5-19 \rightarrow ?$$

$$5-20 \rightarrow ?$$

$$5-21 \rightarrow ?$$

$$5-22 \rightarrow ?$$

$$5-23 \rightarrow ?$$

$$5-24 \rightarrow ?$$

$$5-25 \rightarrow ?$$

$$5-26 \rightarrow ?$$

$$5-27 \rightarrow ?$$

$$5-28 \rightarrow ?$$

$$5-29 \rightarrow ?$$

$$5-30 \rightarrow ?$$

$$5-31 \rightarrow ?$$

$$5-32 \rightarrow ?$$

$$5-33 \rightarrow ?$$

$$5-34 \rightarrow ?$$

$$5-35 \rightarrow ?$$

$$5-36 \rightarrow ?$$

$$5-37 \rightarrow ?$$

$$5-38 \rightarrow ?$$

$$5-39 \rightarrow ?$$

$$5-40 \rightarrow ?$$

$$5-41 \rightarrow ?$$

$$5-42 \rightarrow ?$$

$$5-43 \rightarrow ?$$

$$5-44 \rightarrow ?$$

$$5-45 \rightarrow ?$$

$$5-46 \rightarrow ?$$

$$5-47 \rightarrow ?$$

$$5-48 \rightarrow ?$$

$$5-49 \rightarrow ?$$

$$5-50 \rightarrow ?$$

$$5-51 \rightarrow ?$$

$$5-52 \rightarrow ?$$

$$5-53 \rightarrow ?$$

$$5-54 \rightarrow ?$$

$$5-55 \rightarrow ?$$

$$5-56 \rightarrow ?$$

$$5-57 \rightarrow ?$$

$$5-58 \rightarrow ?$$

$$5-59 \rightarrow ?$$

$$5-60 \rightarrow ?$$

$$5-61 \rightarrow ?$$

$$5-62 \rightarrow ?$$

$$5-63 \rightarrow ?$$

$$5-64 \rightarrow ?$$

$$5-65 \rightarrow ?$$

$$5-66 \rightarrow ?$$

$$5-67 \rightarrow ?$$

$$5-68 \rightarrow ?$$

$$5-69 \rightarrow ?$$

$$5-70 \rightarrow ?$$

$$5-71 \rightarrow ?$$

$$5-72 \rightarrow ?$$

$$5-73 \rightarrow ?$$

$$5-74 \rightarrow ?$$

$$5-75 \rightarrow ?$$

$$5-76 \rightarrow ?$$

$$5-77 \rightarrow ?$$

$$5-78 \rightarrow ?$$

$$5-79 \rightarrow ?$$

$$5-80 \rightarrow ?$$

$$5-81 \rightarrow ?$$

$$5-82 \rightarrow ?$$

$$5-83 \rightarrow ?$$

$$5-84 \rightarrow ?$$

$$5-85 \rightarrow ?$$

$$5-86 \rightarrow ?$$

$$5-87 \rightarrow ?$$

$$5-88 \rightarrow ?$$

$$5-89 \rightarrow ?$$

$$5-90 \rightarrow ?$$

$$5-91 \rightarrow ?$$

$$5-92 \rightarrow ?$$

$$5-93 \rightarrow ?$$

$$5-94 \rightarrow ?$$

$$5-95 \rightarrow ?$$

$$5-96 \rightarrow ?$$

$$5-97 \rightarrow ?$$

$$5-98 \rightarrow ?$$

$$5-99 \rightarrow ?$$

$$5-100 \rightarrow ?$$

$$5-101 \rightarrow ?$$

$$5-102 \rightarrow ?$$

$$5-103 \rightarrow ?$$

$$5-104 \rightarrow ?$$

$$5-105 \rightarrow ?$$

$$5-106 \rightarrow ?$$

$$5-107 \rightarrow ?$$

$$5-108 \rightarrow ?$$

$$5-109 \rightarrow ?$$

$$5-110 \rightarrow ?$$

$$5-111 \rightarrow ?$$

$$5-112 \rightarrow ?$$

$$5-113 \rightarrow ?$$

$$5-114 \rightarrow ?$$

$$5-115 \rightarrow ?$$

$$5-116 \rightarrow ?$$

$$5-117 \rightarrow ?$$

$$5-118 \rightarrow ?$$

$$5-119 \rightarrow ?$$

$$5-120 \rightarrow ?$$

$$5-121 \rightarrow ?$$

$$5-122 \rightarrow ?$$

$$5-123 \rightarrow ?$$

$$5-124 \rightarrow ?$$

$$5-125 \rightarrow ?$$

$$5-126 \rightarrow ?$$

$$5-127 \rightarrow ?$$

$$5-128 \rightarrow ?$$

$$5-129 \rightarrow ?$$

$$5-130 \rightarrow ?$$

$$5-131 \rightarrow ?$$

$$5-132 \rightarrow ?$$

$$5-133 \rightarrow ?$$

$$5-134 \rightarrow ?$$

$$5-135 \rightarrow ?$$

$$5-136 \rightarrow ?$$

$$5-137 \rightarrow ?$$

$$5-138 \rightarrow ?$$

$$5-139 \rightarrow ?$$

$$5-140 \rightarrow ?$$

$$5-141 \rightarrow ?$$

$$5-142 \rightarrow ?$$

$$5-143 \rightarrow ?$$

$$5-144 \rightarrow ?$$

$$5-145 \rightarrow ?$$

$$5-146 \rightarrow ?$$

$$5-147 \rightarrow ?$$

$$5-148 \rightarrow ?$$

$$5-149 \rightarrow ?$$

$$5-150 \rightarrow ?$$

$$5-151 \rightarrow ?$$

$$5-152 \rightarrow ?$$

$$5-153 \rightarrow ?$$

$$5-154 \rightarrow ?$$

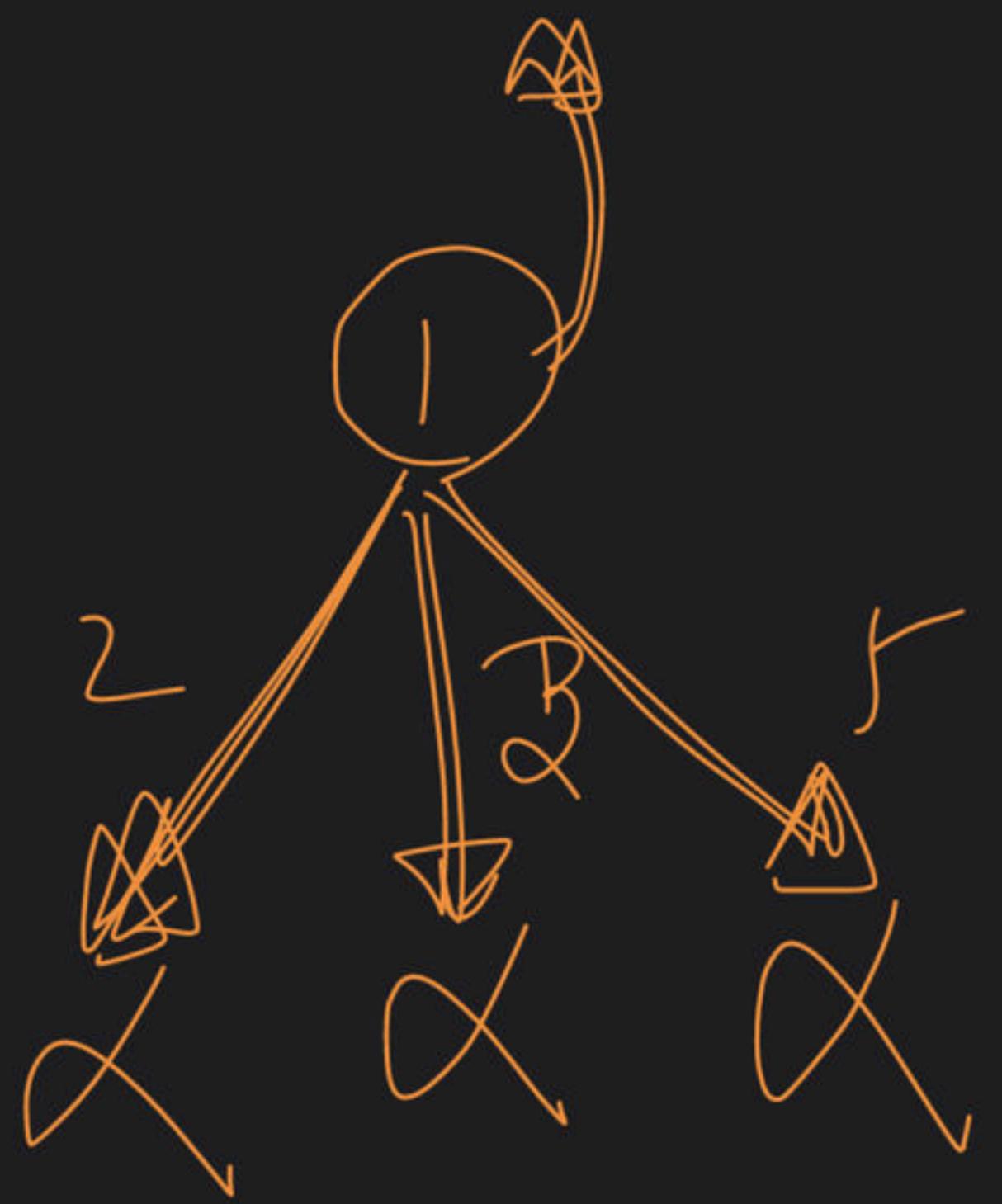
$$5-155 \rightarrow ?$$

$$5-156 \rightarrow ?$$

$$5-157 \rightarrow ?$$

$$5-158 \rightarrow ?$$

$$5-159 \rightarrow ?$$



coins
change

```
int solve ( coins[], amount )  
{  
    // base case  
    if ( amount == 0 ) → return 0;
```

int mini = INT_MAX;

for (i=0; i<coins.size(); i++)
 {

int coin = coins[i]

if (coin <= amount)

int recAns = solve (coins, amount - coin)

if (recAns != INT_MAX)

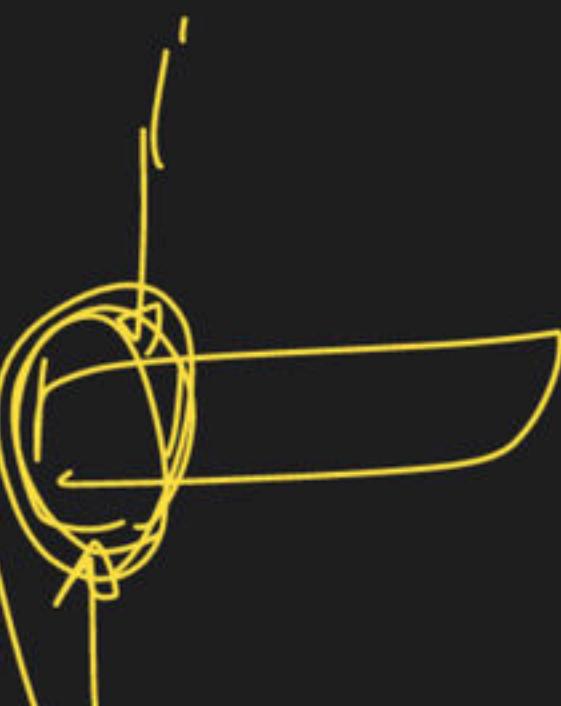
int coinAns = 1 + recAns

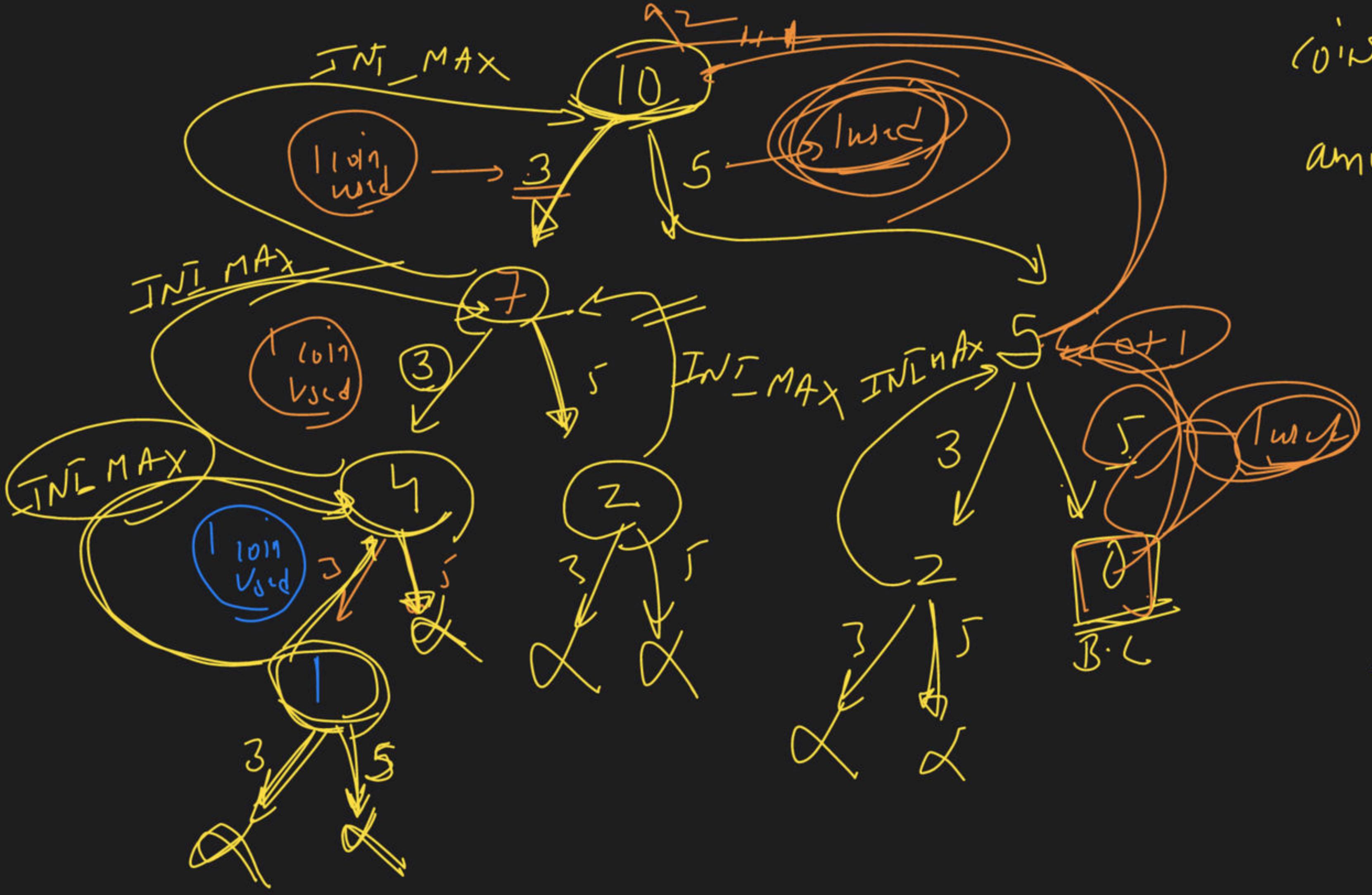
mini = min (coinAns, mini)

}

return mini;

Bhool
Jata hua





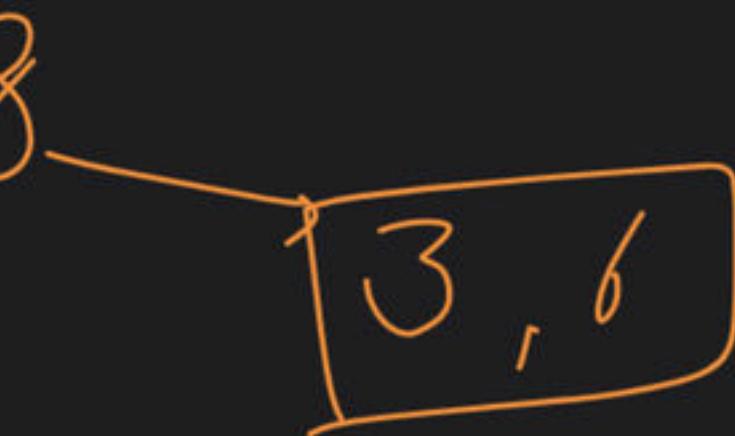
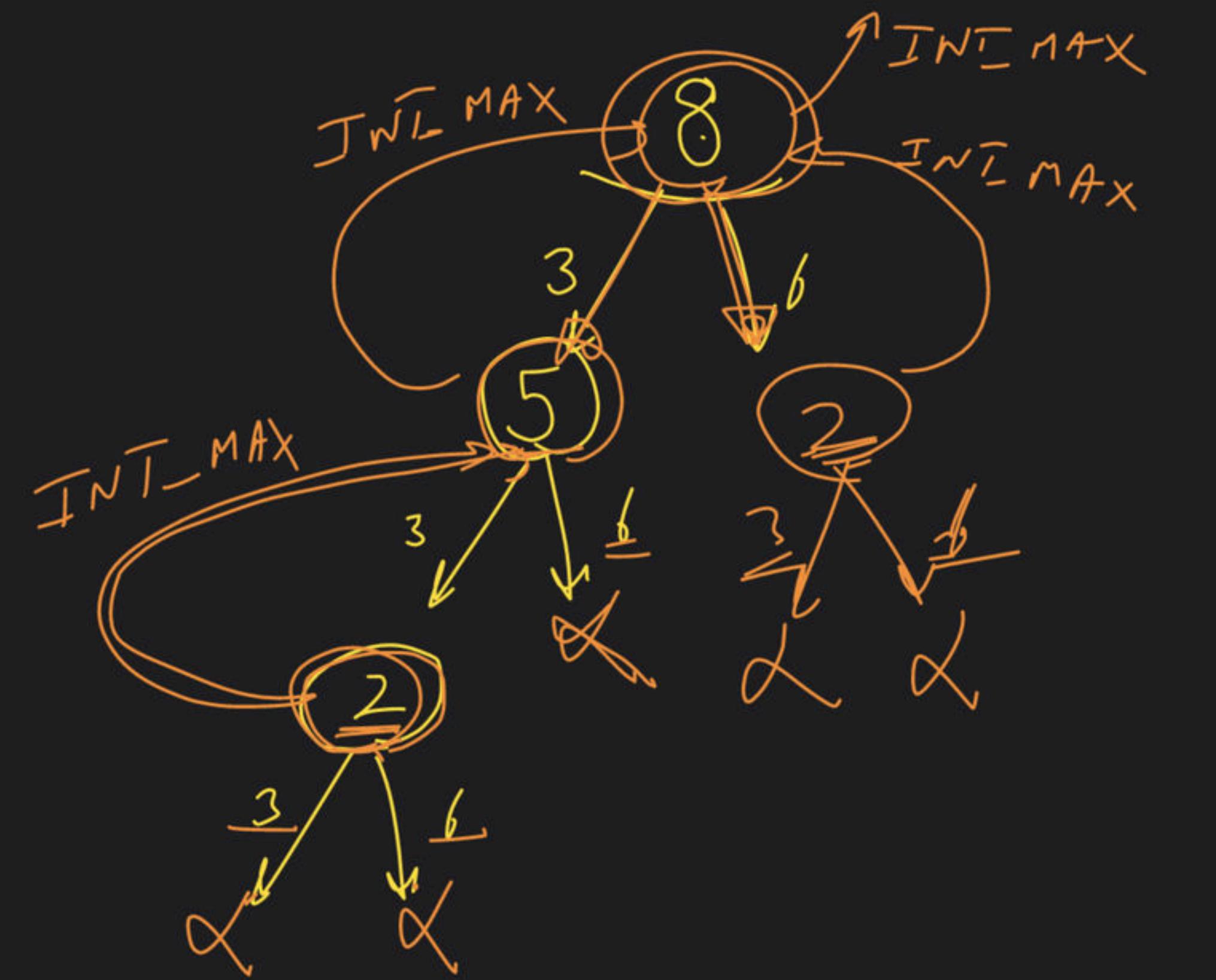
$$0^{\circ}\text{N} \rightarrow [3, 5]$$

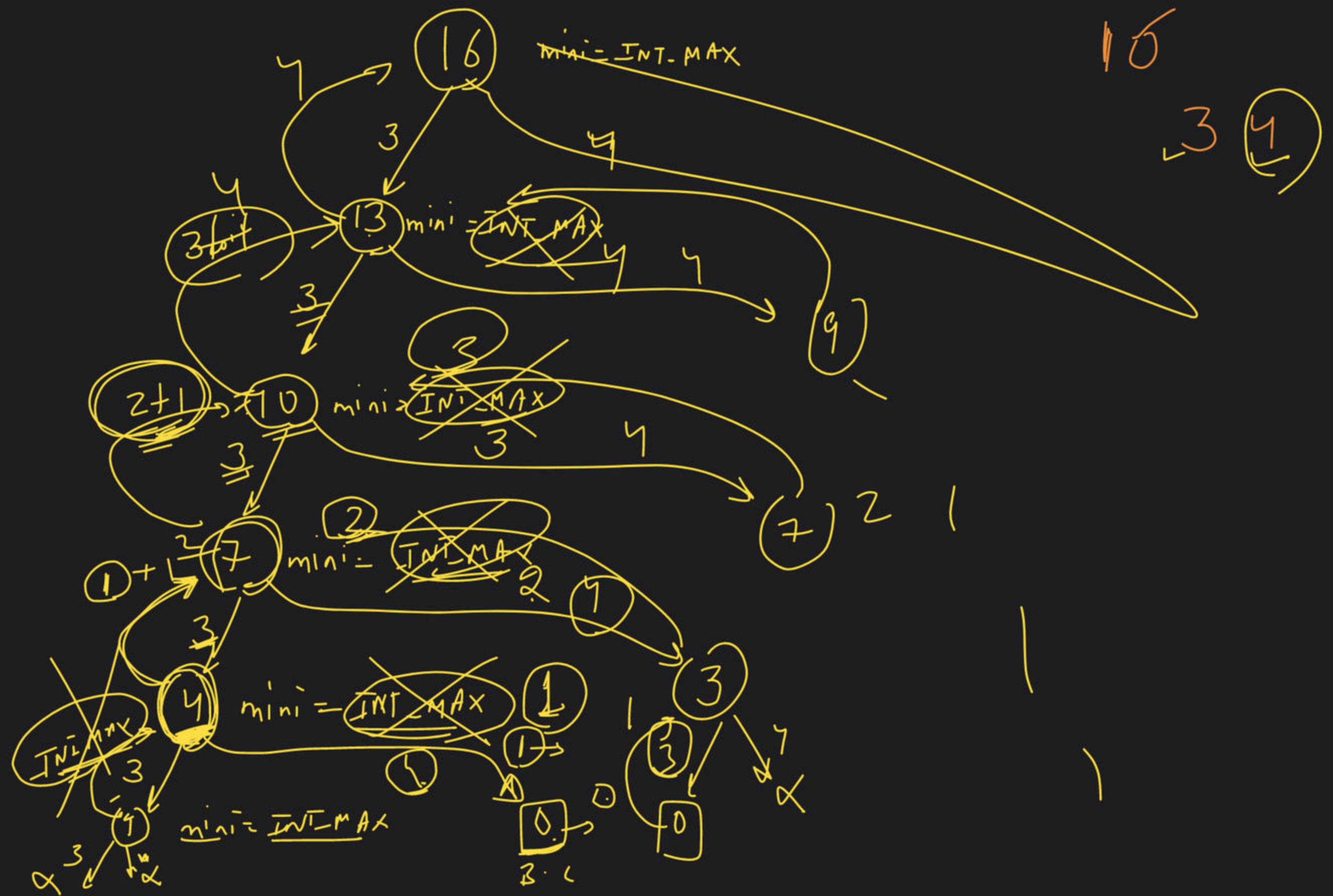
amount → 10

mini -> INT_MAX

↓

no way
possible







15
4 5

7
5 2

