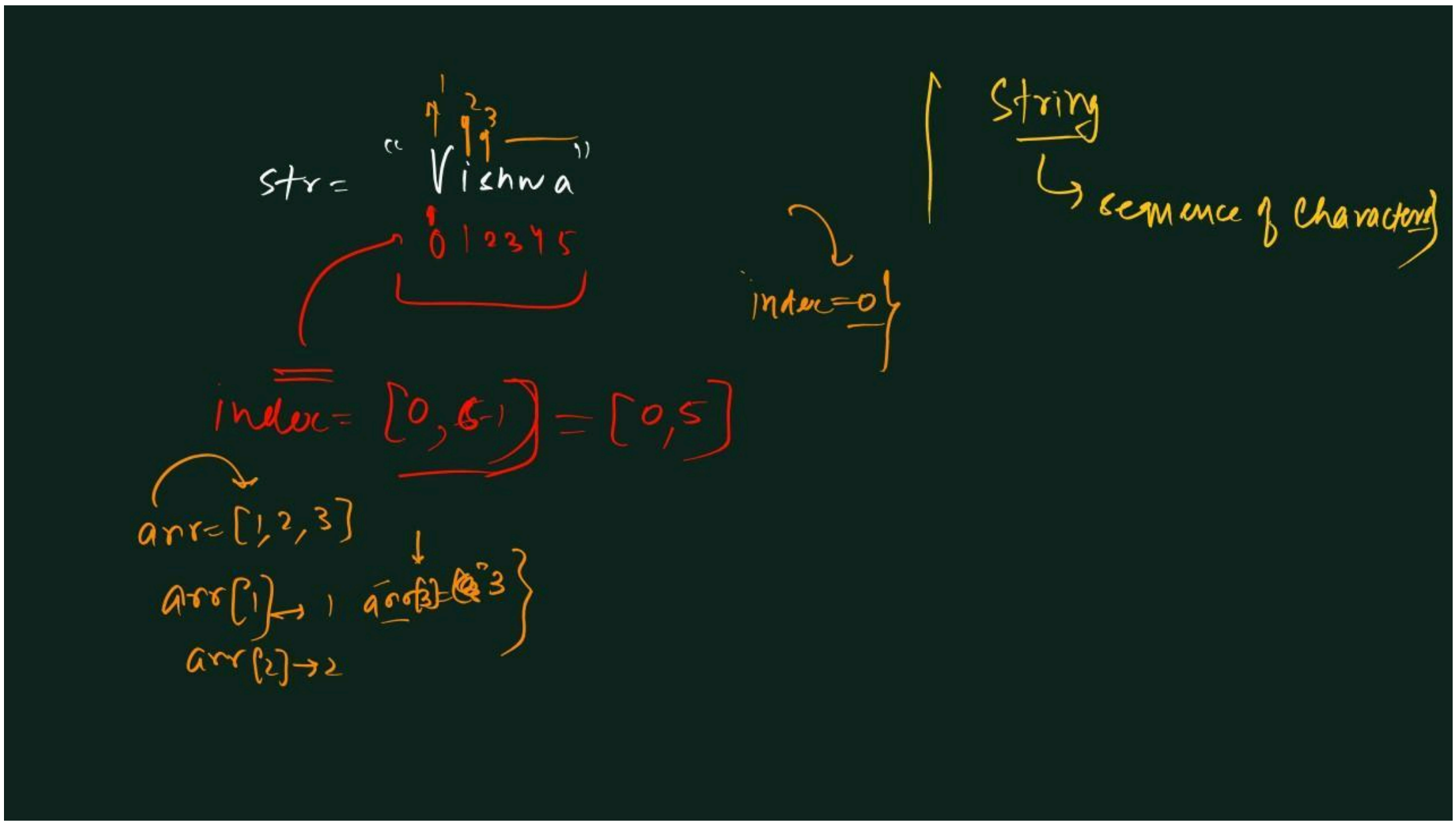
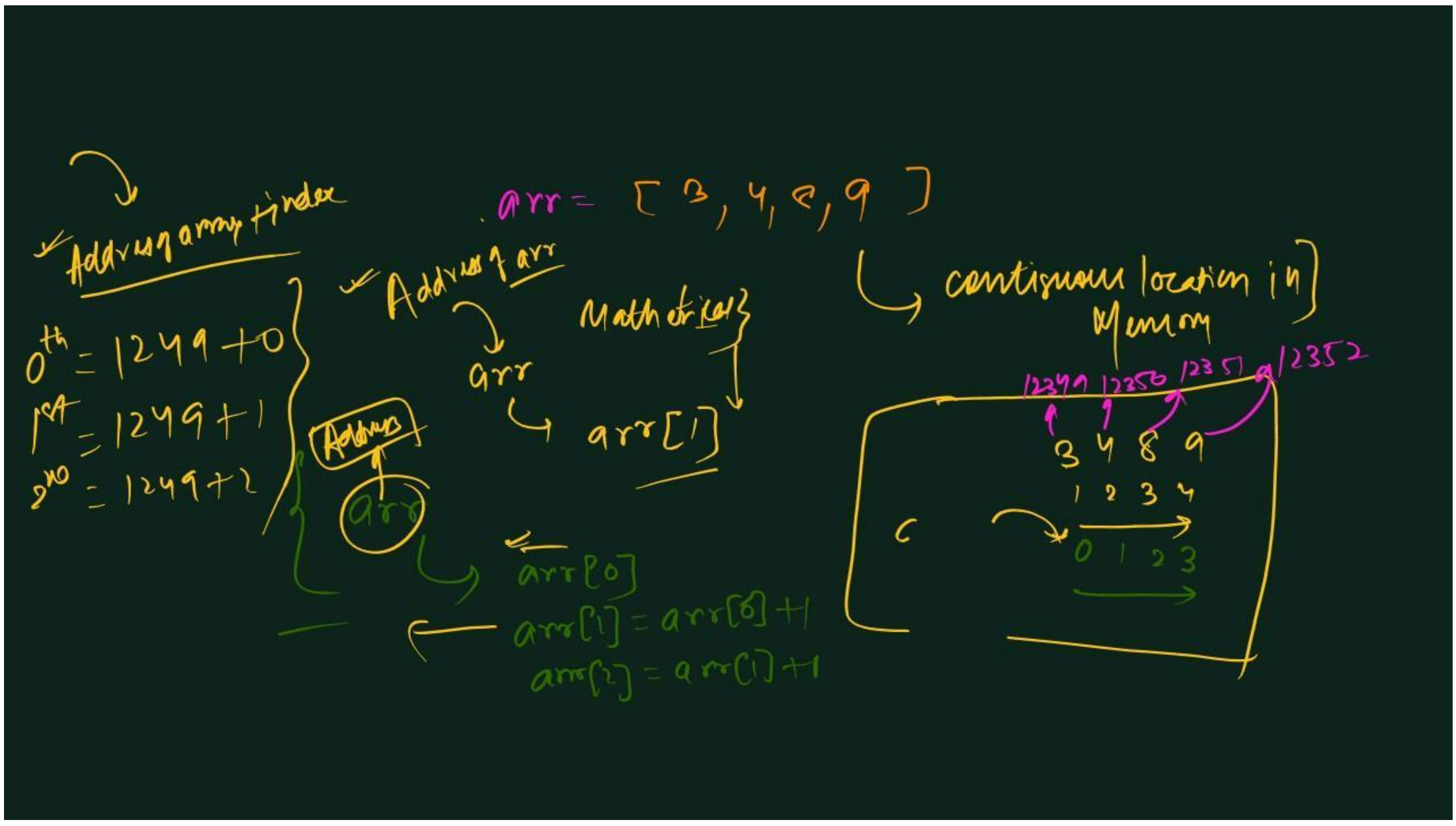
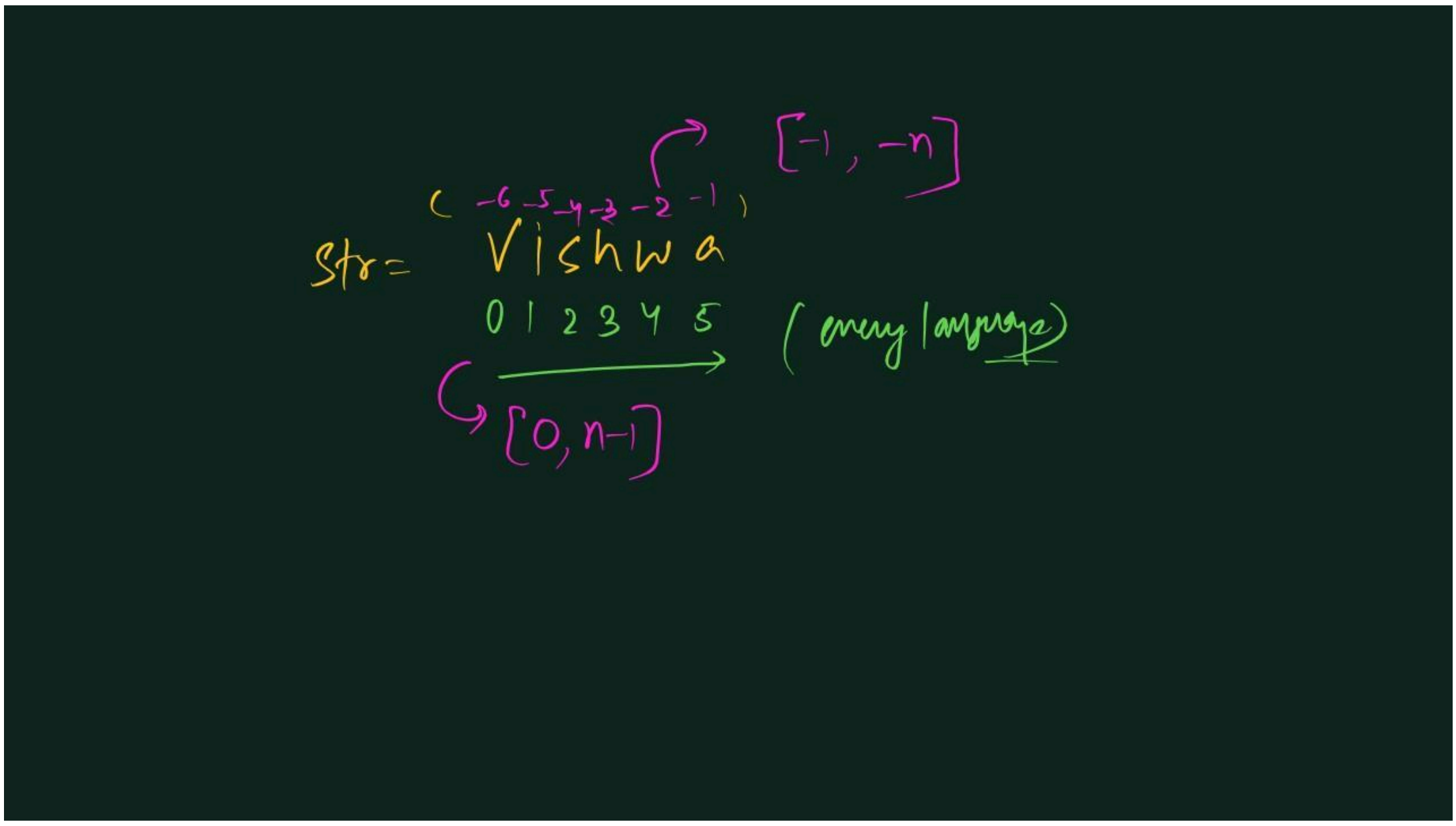
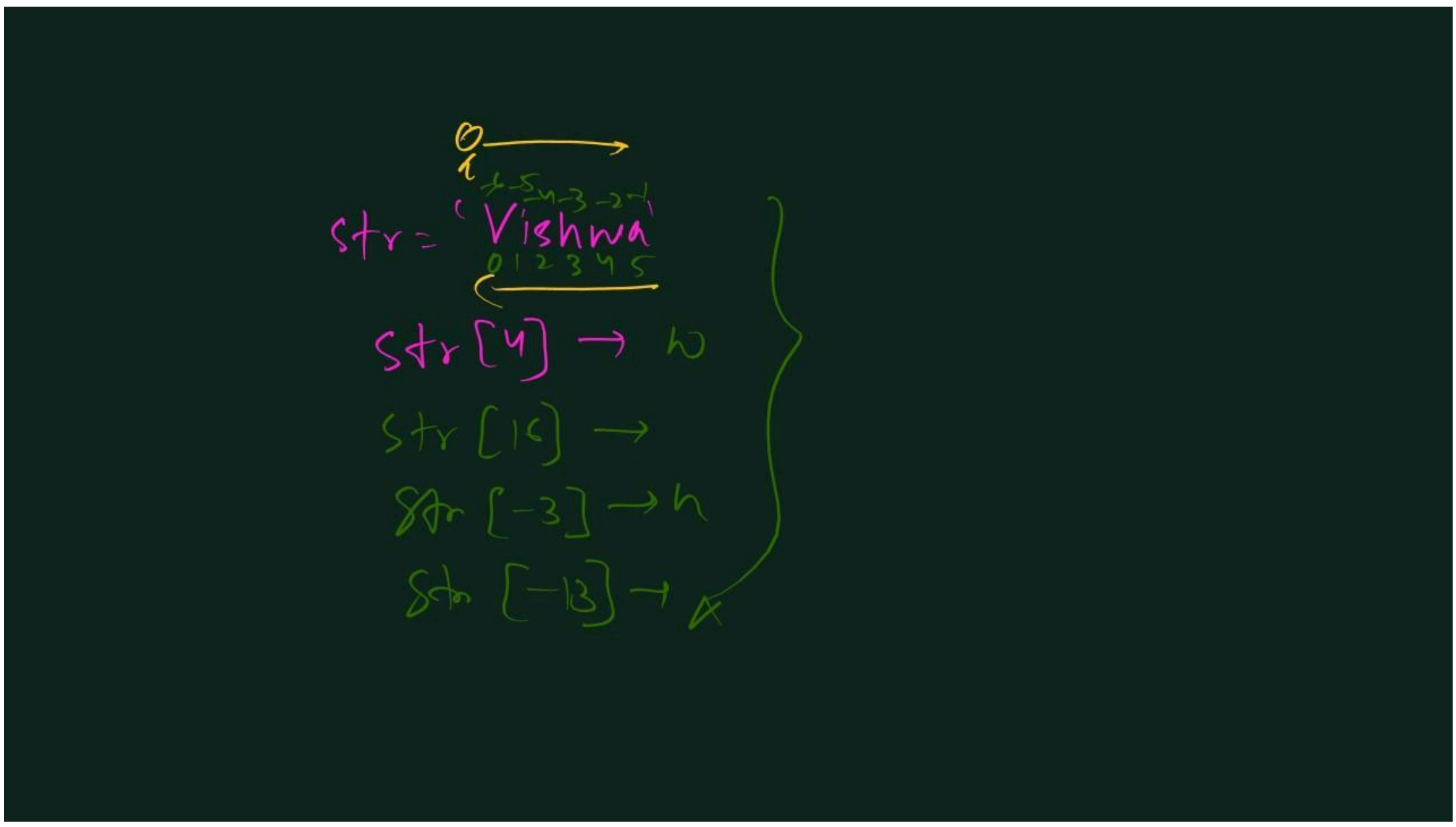
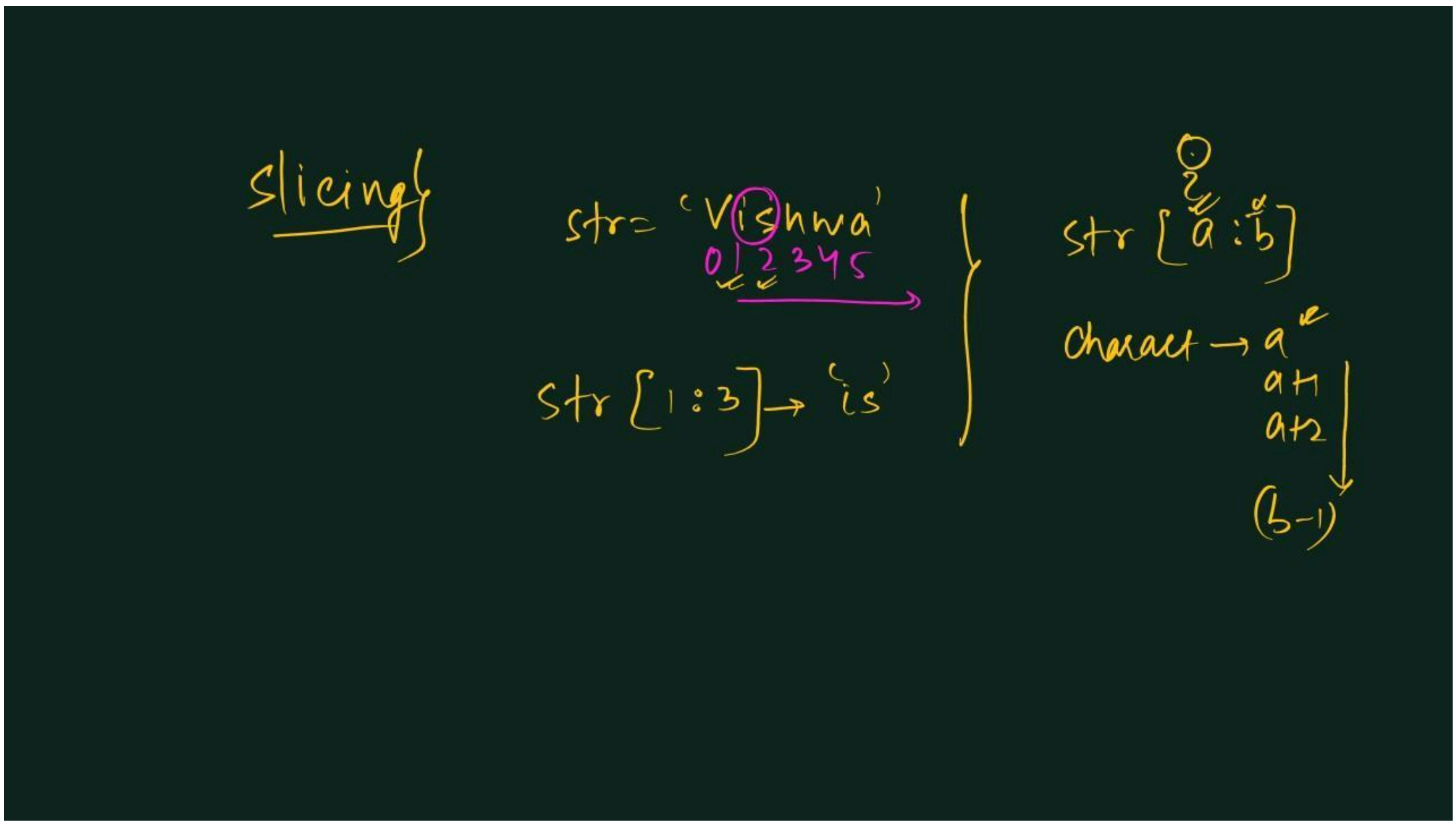

str = "Vishnu"
0 1 2 3 4 5
index = [0, 6-1] = [0, 5]
String
↳ sequence of characters
index = 0
arr = [1, 2, 3]
arr[1] → 1
arr[2] → 2
arr[3] → 3


Address of array index
0th = 1249 + 0
1st = 1249 + 1
2nd = 1249 + 2
Address of arr
arr
Address
arr
arr = [3, 4, 8, 9]
Mathematical
arr[1]
arr[0]
arr[1] = arr[0] + 1
arr[2] = arr[1] + 1
continuous location in Memory
1234 1235 1236 1237
3 4 8 9
1 2 3 4
0 1 2 3
C


[-1, -n]
(-6 -5 -4 -3 -2 -1)
Str= Vishwa
0 1 2 3 4 5
(every / anyway)
[0, n-1]


str = 'Vishwa'
0 1 2 3 4 5
-6 -5 -4 -3 -2 -1
str[4] → w
str[16] →
str[-3] → h
str[-13] →


slicing
str= 'Vishnwa'
0 1 2 3 4 5
str [1:3] → 'is'
str [a : b]
Charact → a
a+1
a+2
(b-1)

str = 'Vishwa'

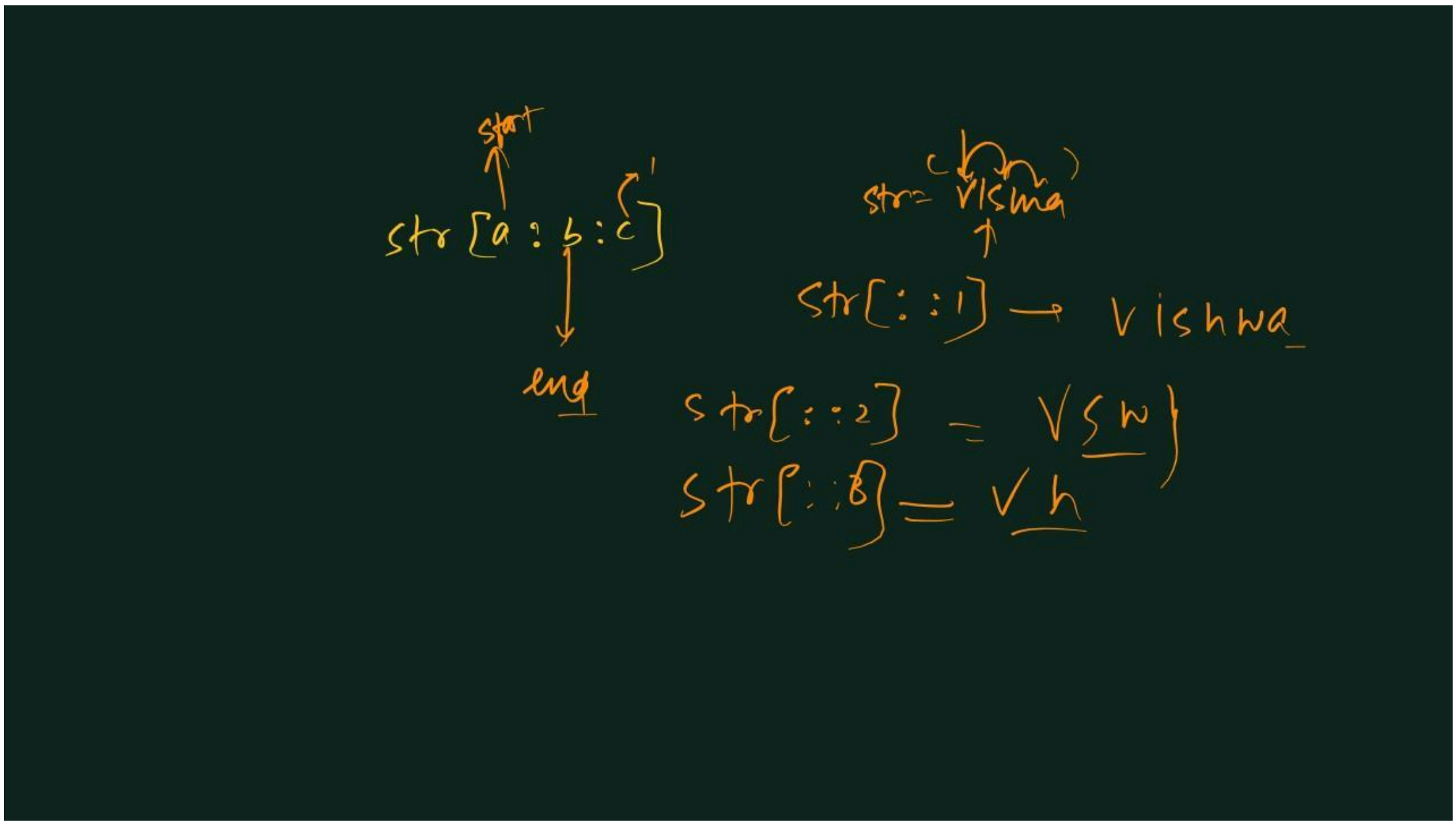
→ starting → 5th index → str[0:6] or [:6]

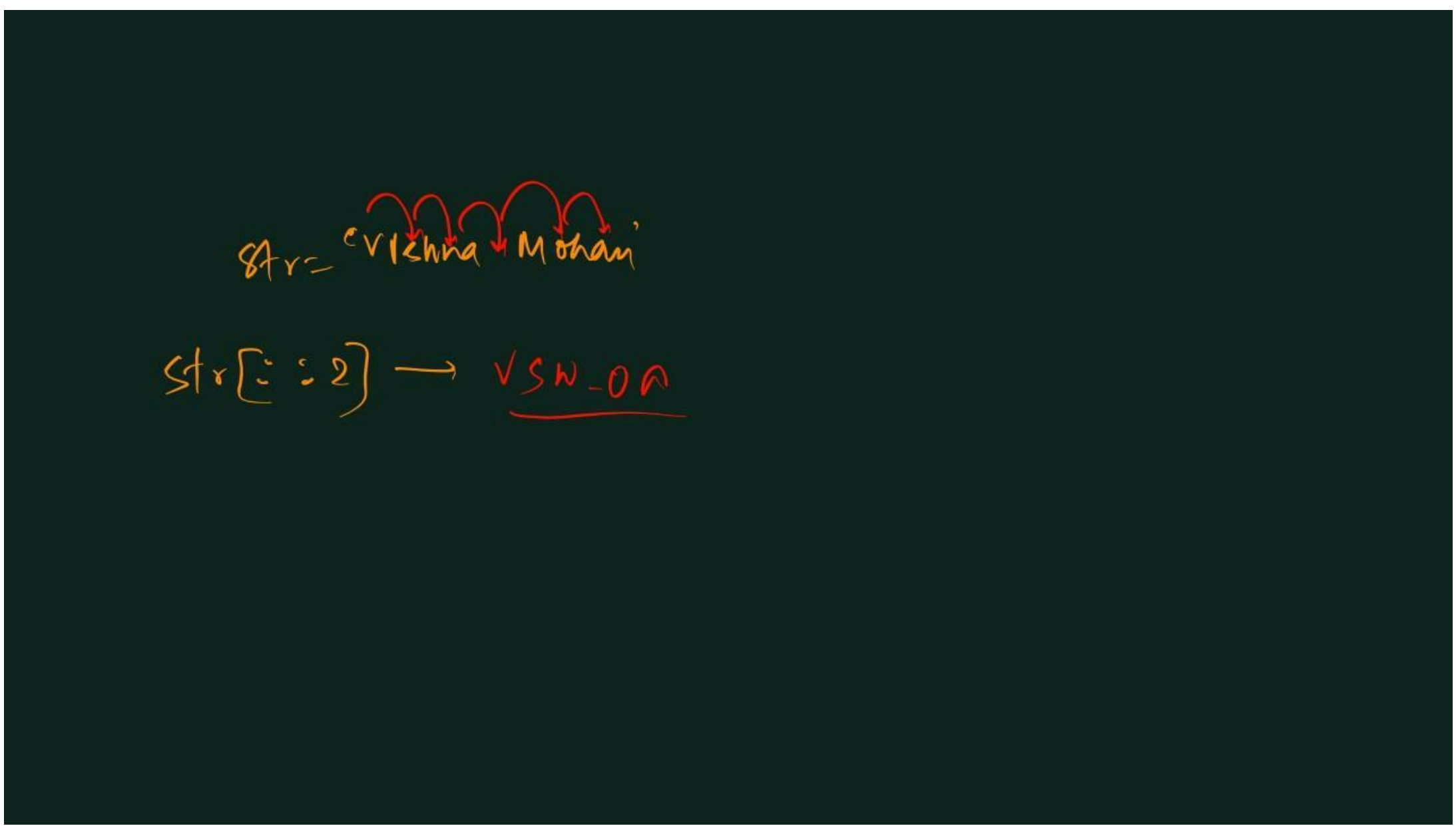
→ 4th → end → str[4:] → str[:] →

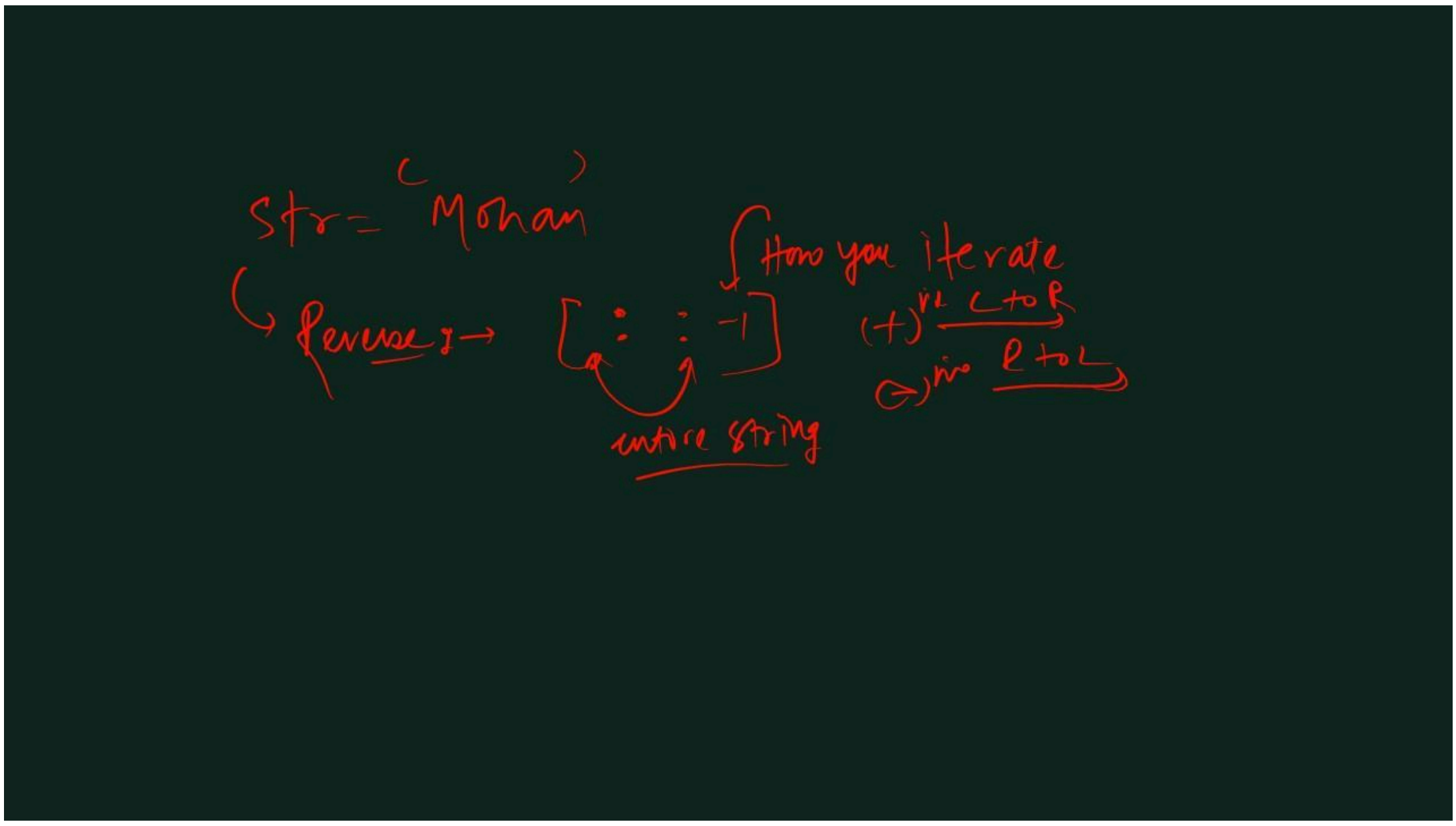
sto = 'Vishna Mohan'

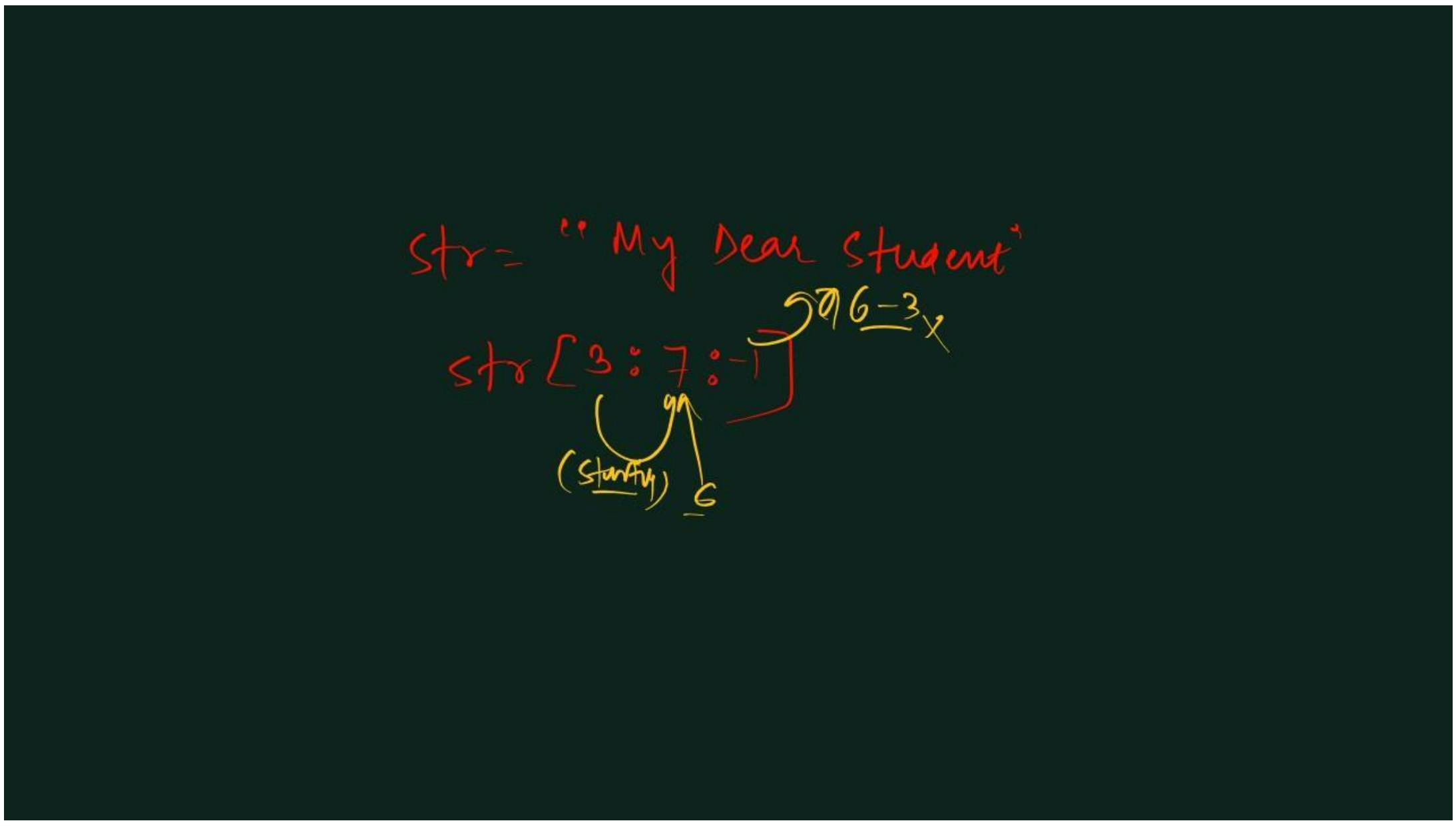
sto[::2]

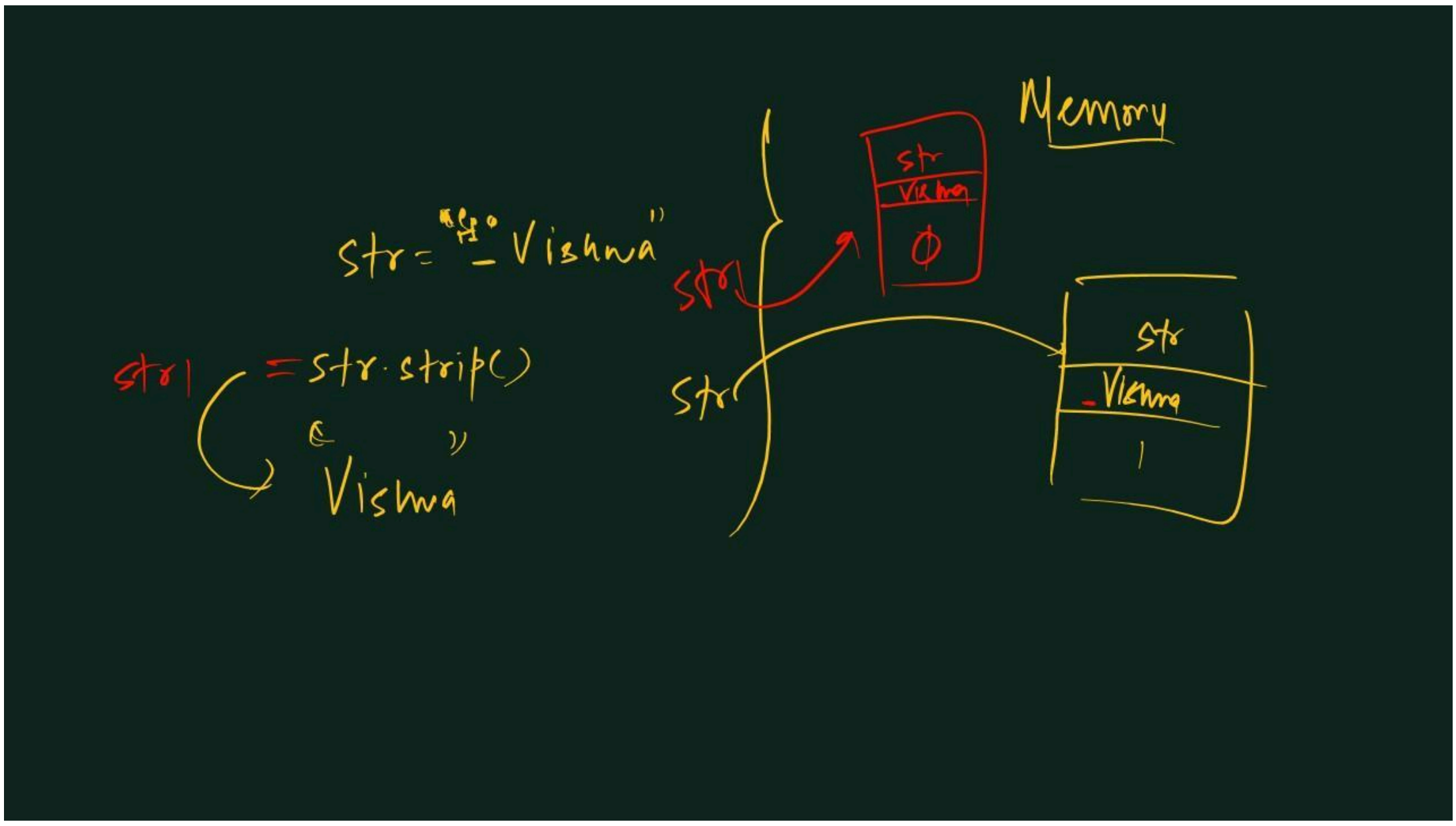
Vsh. Mhn

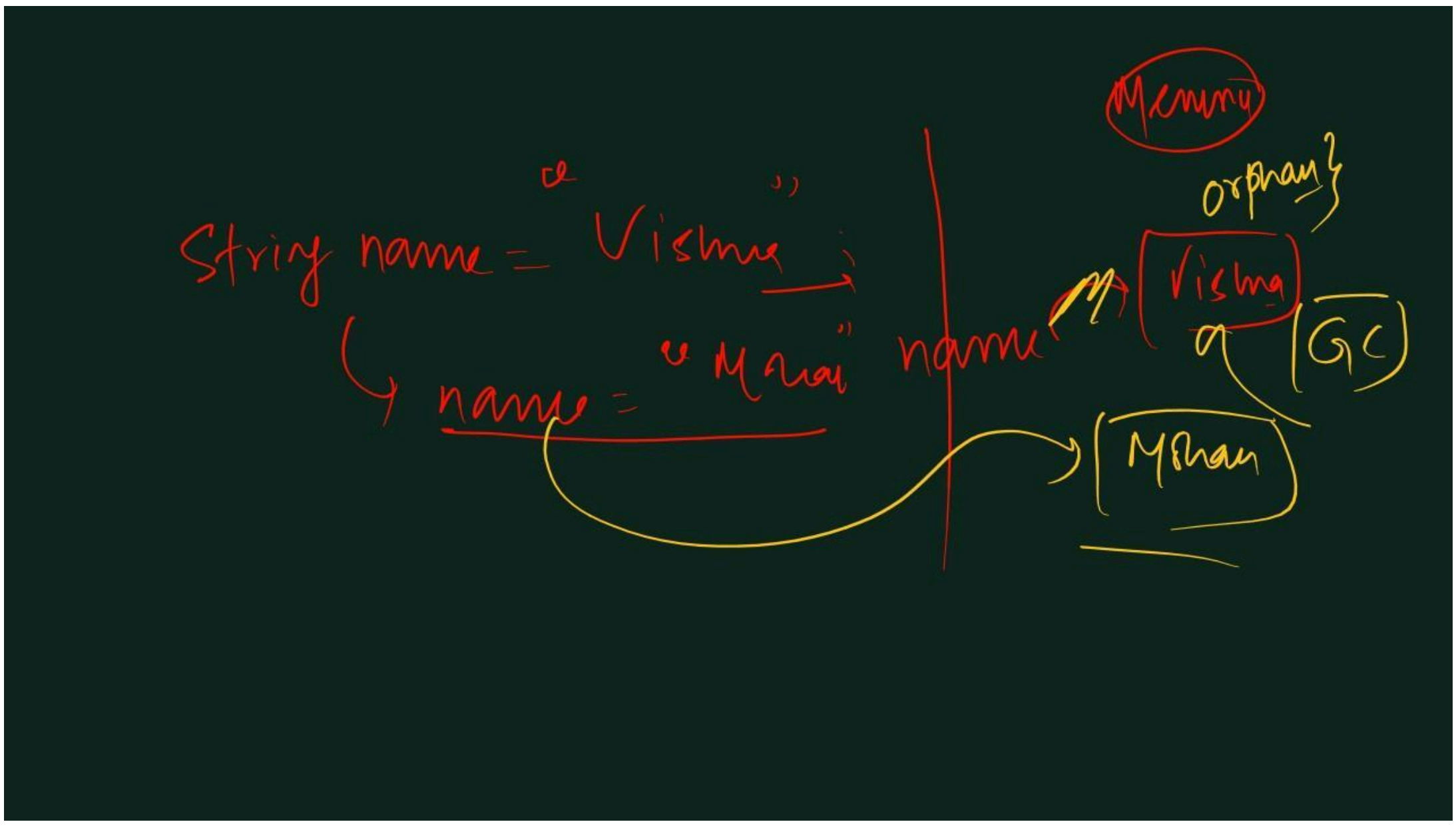

start
str [a : b : c]
end
str = Vishwa
str[::1] → Vishwa
str[::2] = Vsw
str[::8] = Vh

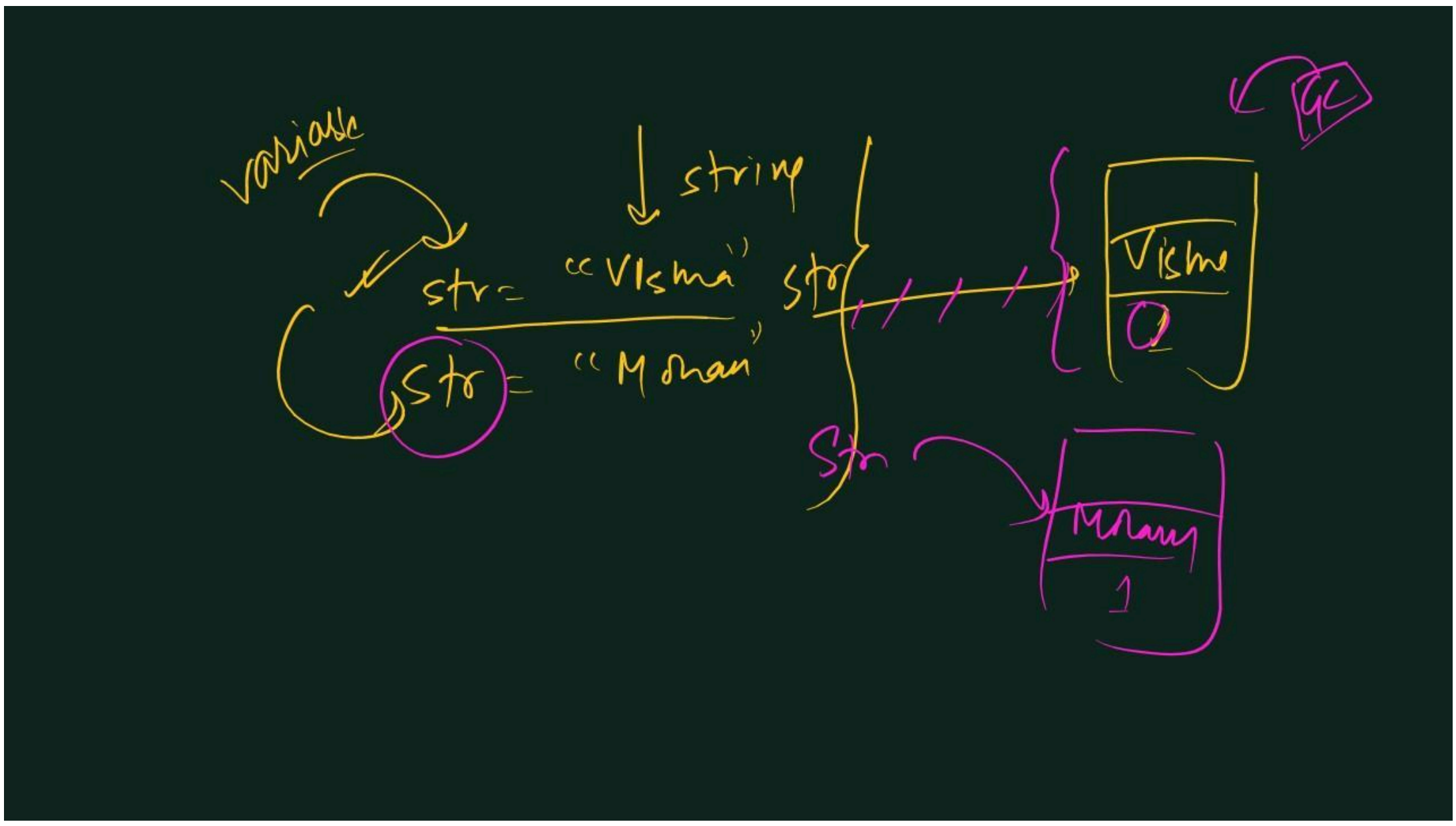

Str= 'Vishna Mohan'
Str[::2] → VSN_OA

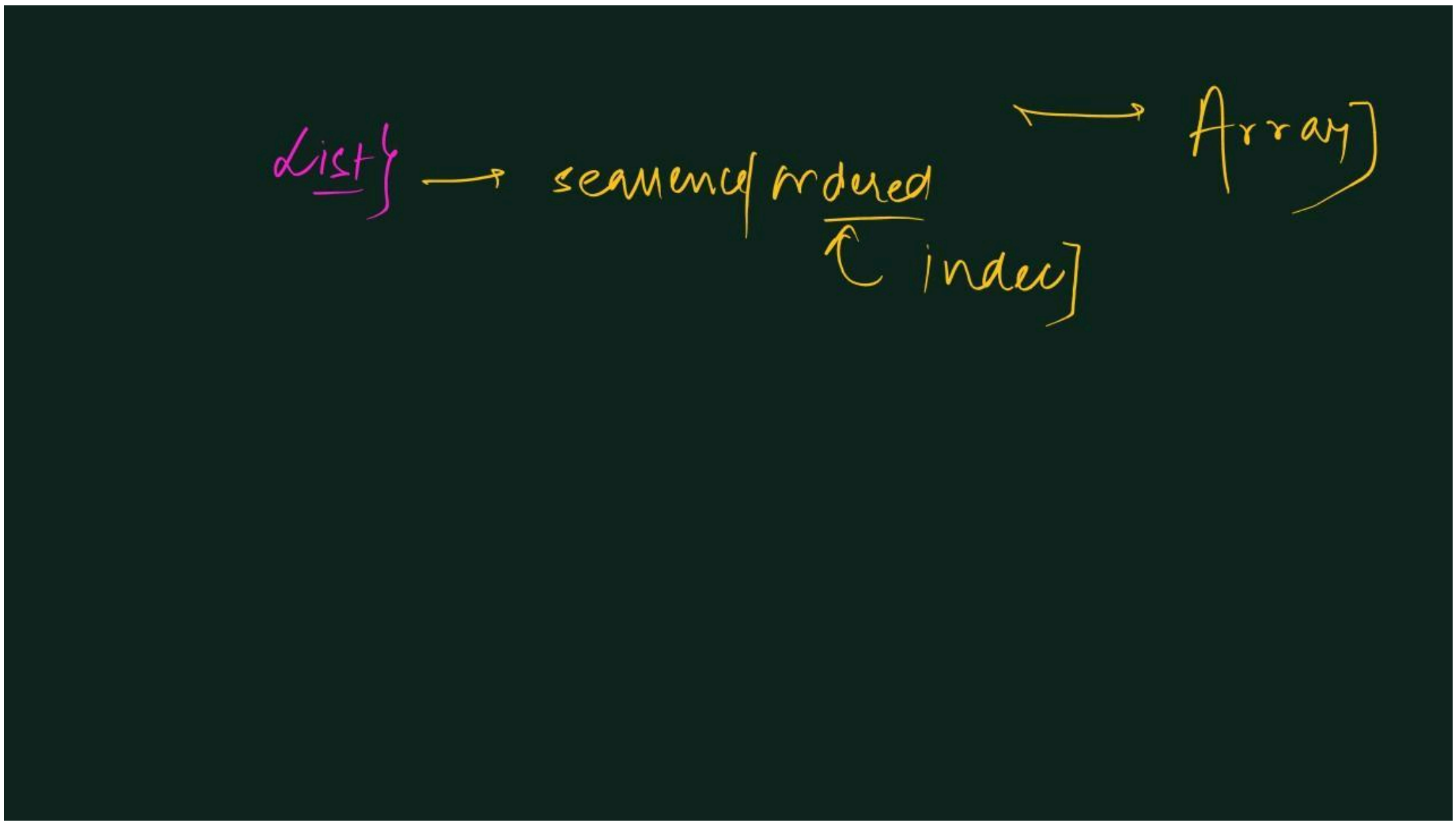

Str = 'Mohan'
Reverse :→ [: : -1]
How you iterate
(+)ve L to R
-ve R to L
entire string

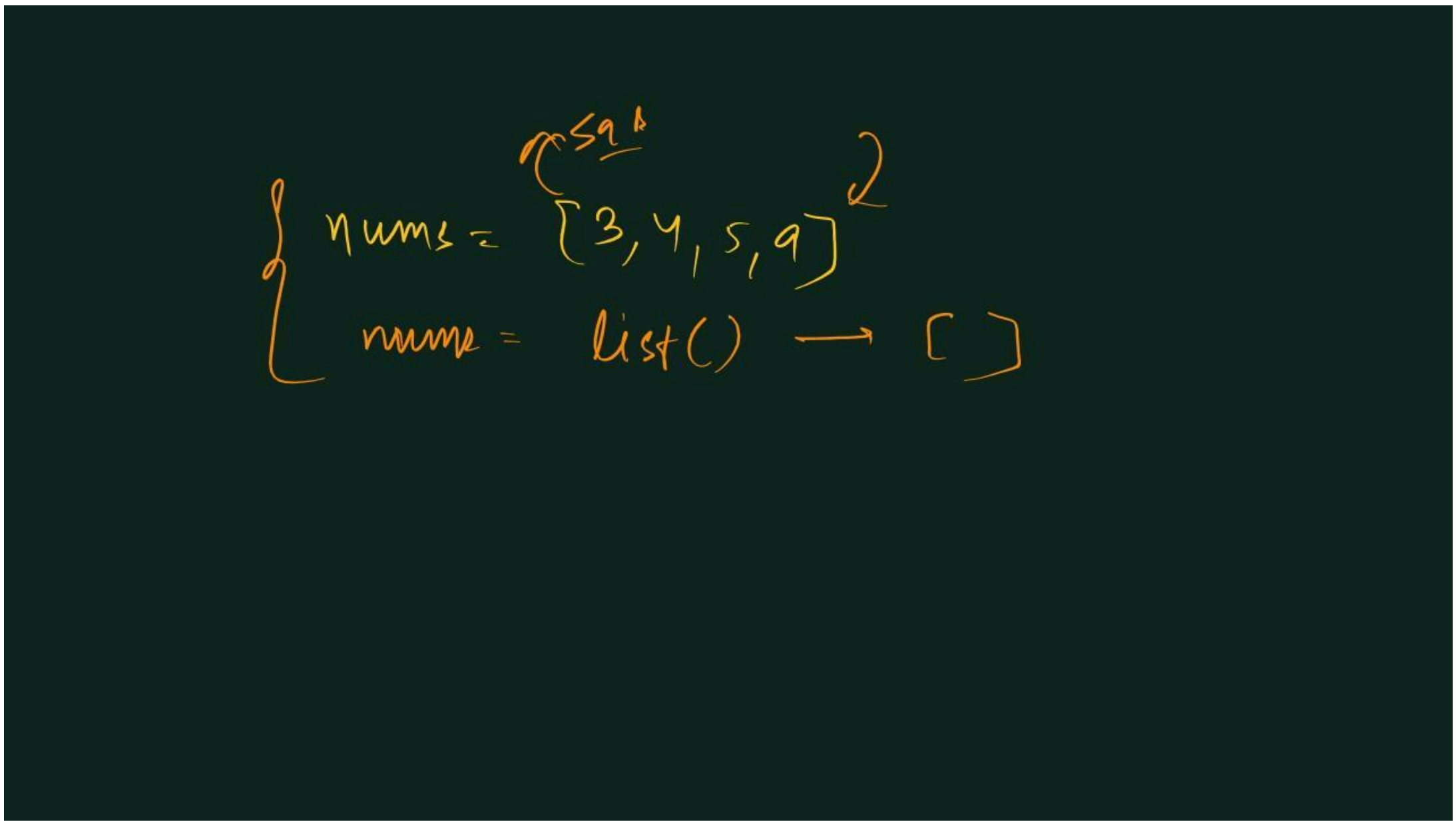

str = "My Dear Student"
str[3:7:-1]
976-3
(Start)
6


str = " Vishwa"
str1 = str.strip()
"
Vishwa
Memory
str
Vishwa
0
str1
str
str
Vishwa
1


String name = "Vishnu";
name = "Mahan";
Memory
orphan
Vishnu
GC
name
Mahan


variable
string
str =
"Vishu"
"Mohan"
str
str
Vishu
0
GC
Str
Mohan
1

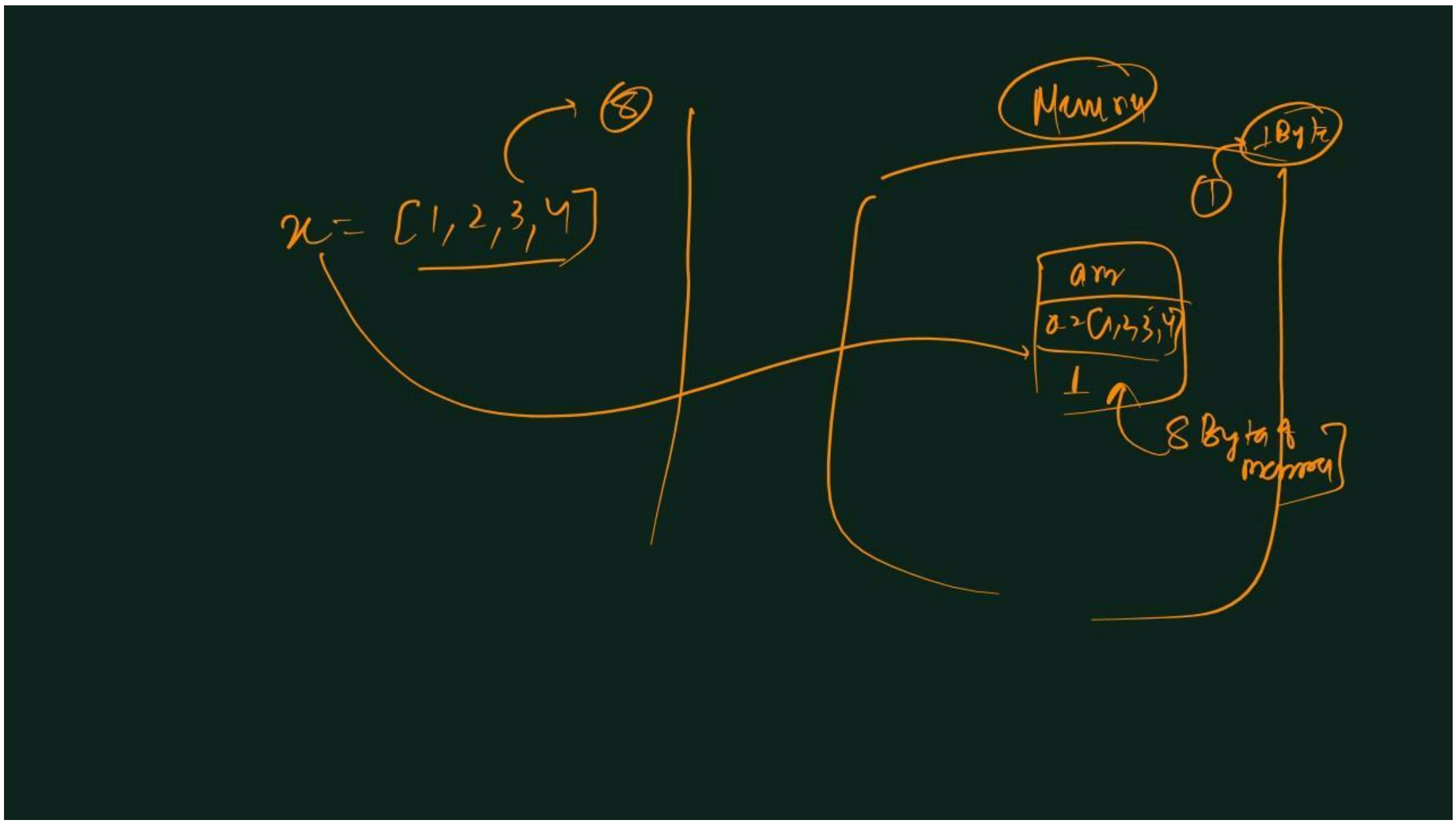

List
sequenced ordered
indexed
Array

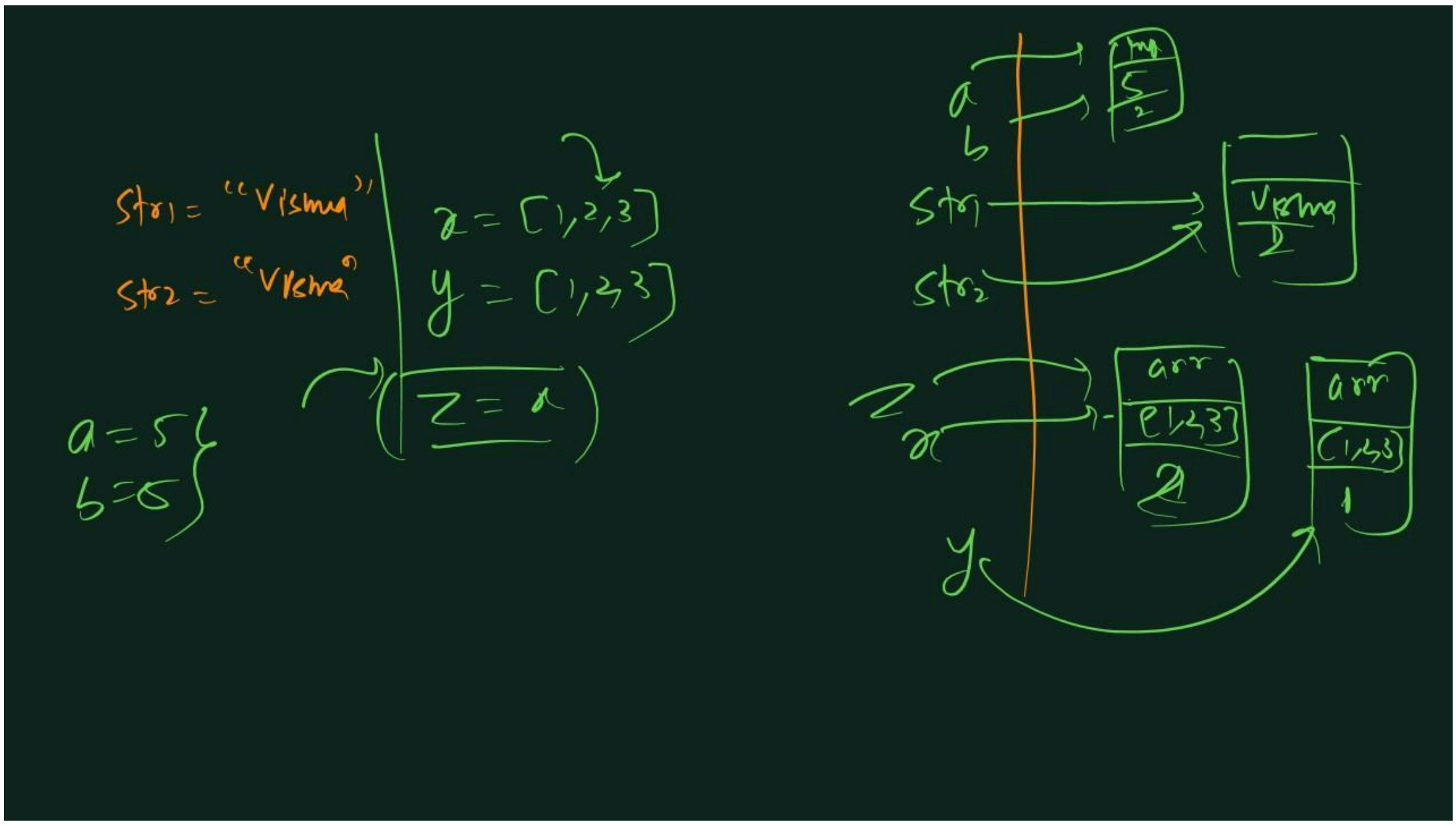

sq
nums = [3,4,5,9]
nums = list() → []

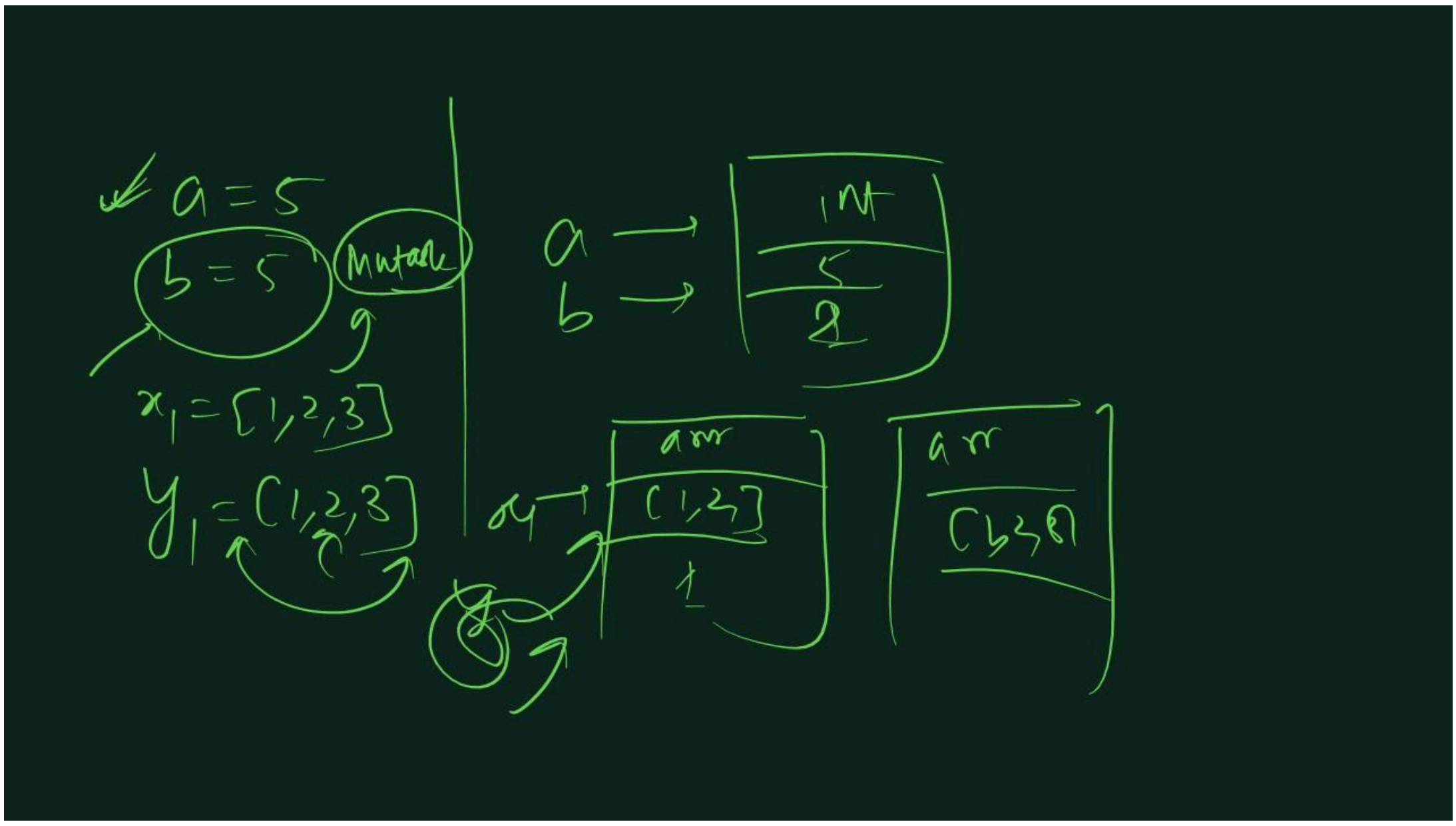
slicing → string

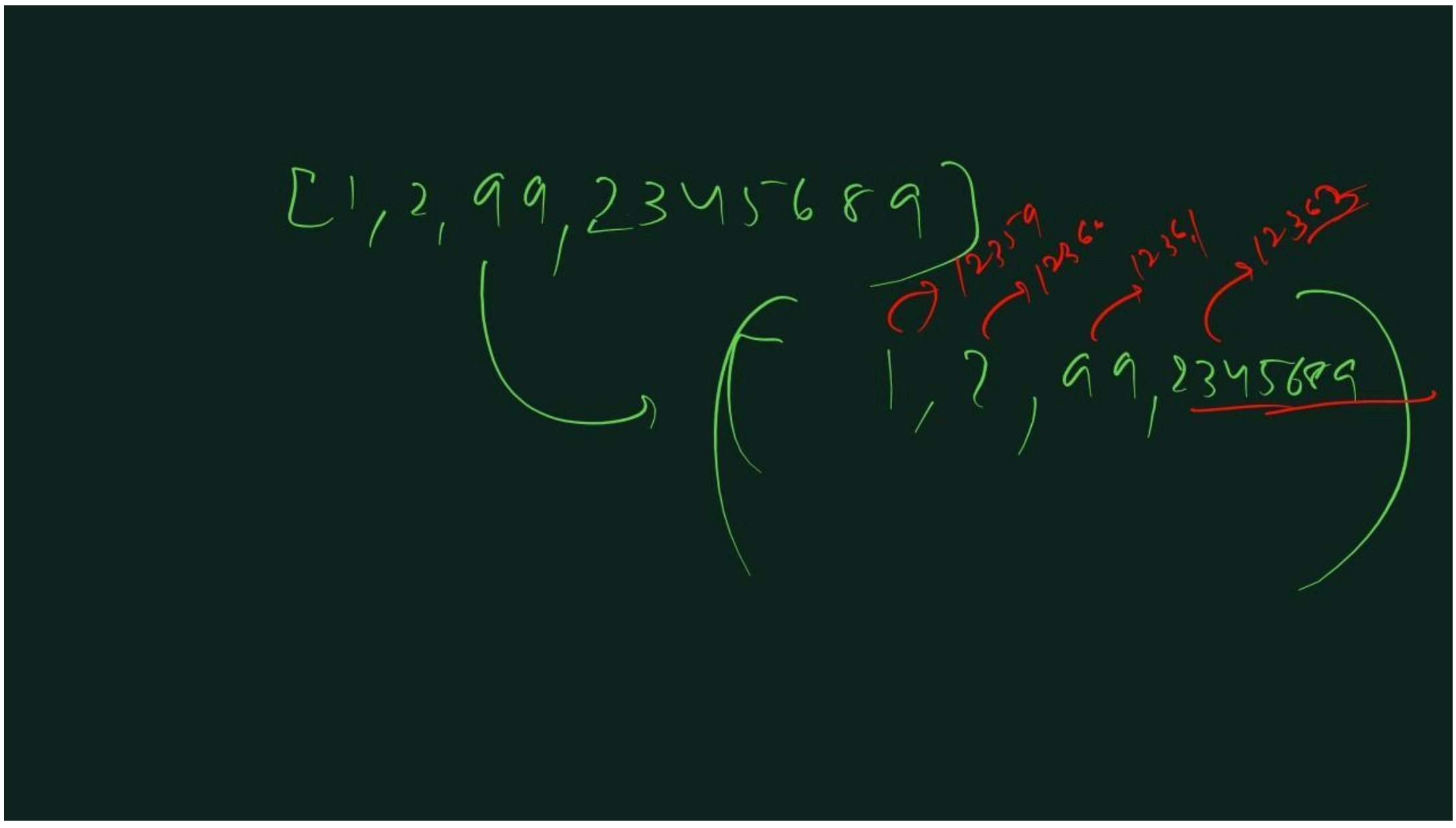
1. → Dynamic Array } → size) q 8

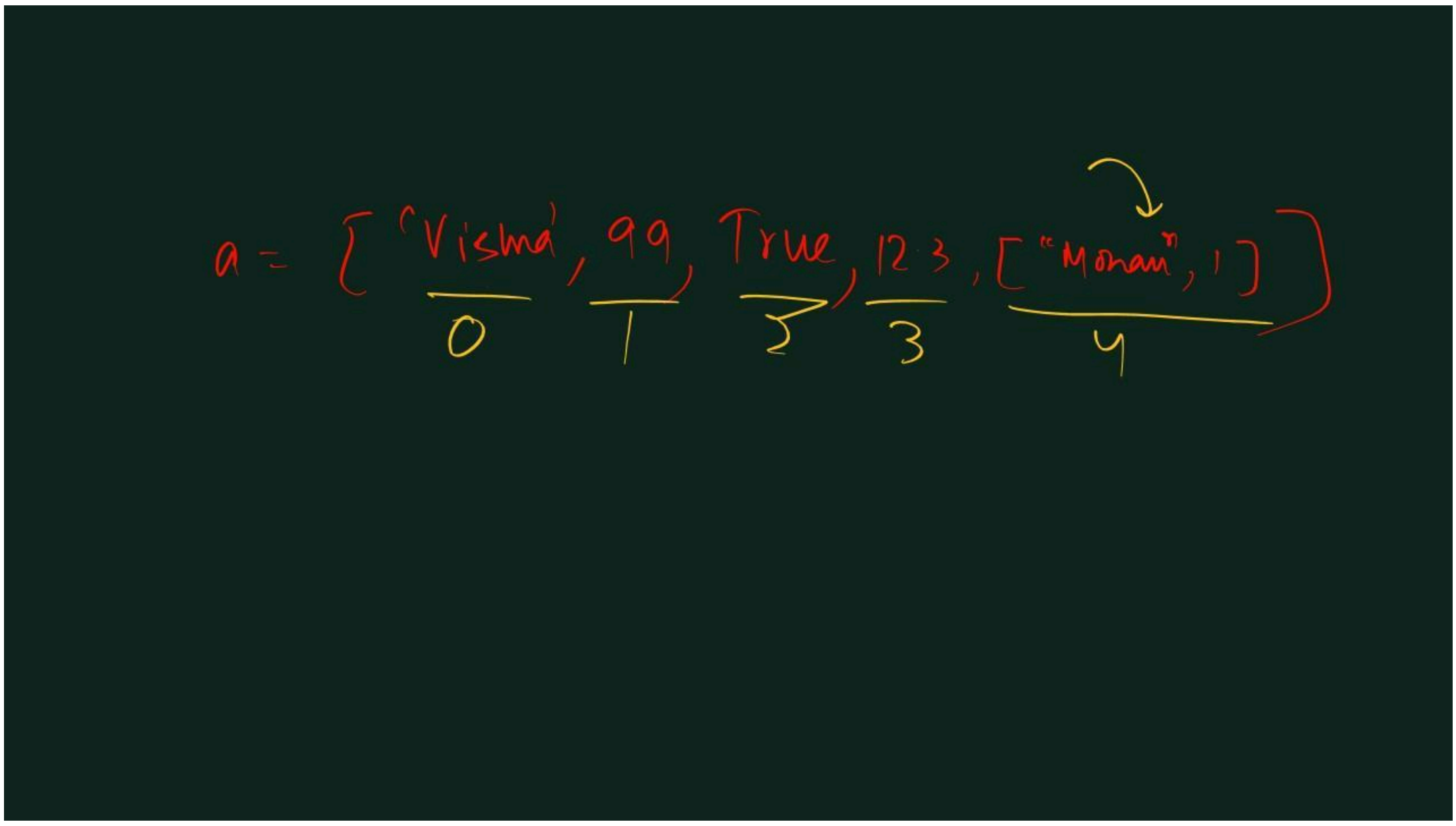
x = list() → [ ]

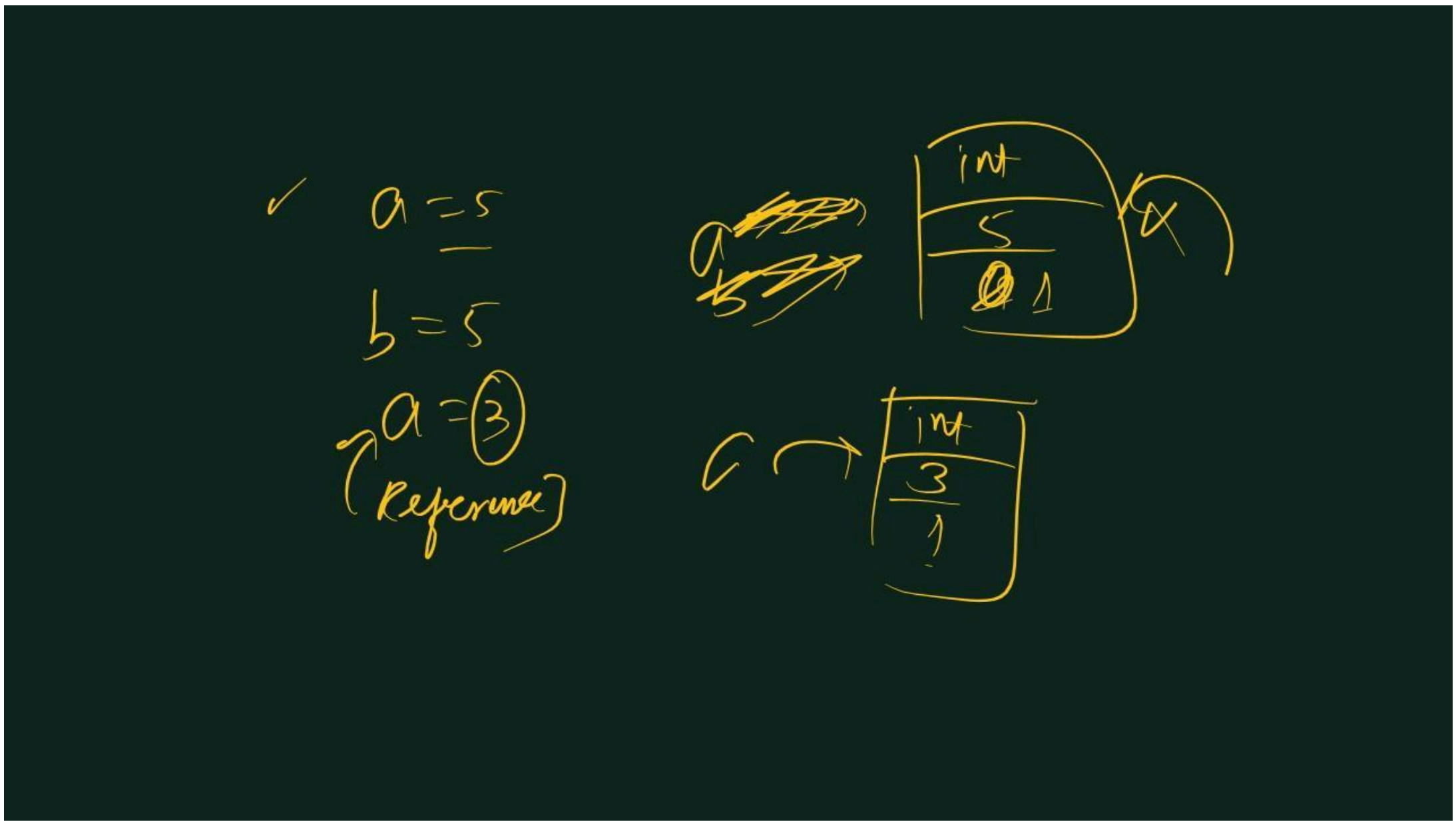

x = [1,2,3,4]
Memory
1 Byte
arr
a = [1,3,3,4]
1
8 Bytes of memory


Str1 = "Vishnu"
Str2 = "Vishnu"
a = 5
b = 5
z = [1,2,3]
y = [1,2,3]
Z = x
a
b
Str1
Str2
Vishnu
2
z
x
arr
[1,2,3]
2
arr
[1,2,3]
1
y


a = 5
b = 5
Mutable
a
b
int
5
2
x1 = [1,2,3]
y1 = [1,2,3]
arr
[1,4]
1
arr
[1,4,9]


[1,2,99,2345689]
1,2,99,2345689


a = ['Vishu', 99, True, 123, ["Mohan", 1]]
0
1
2
3
4


a = 5
b = 5
a = 3
(Reference)
int
5
0 1
a
c
int
3
1