$[3,5,8] \implies [3,5,8,7]$

push 7

STACK = LIFO

Last
In
First
Out

Top

4.

6.

5.

| 8 |
| 5 |
| 3 |

3.
2.
Top 1.

5 $\implies$ 5

3

7.

3
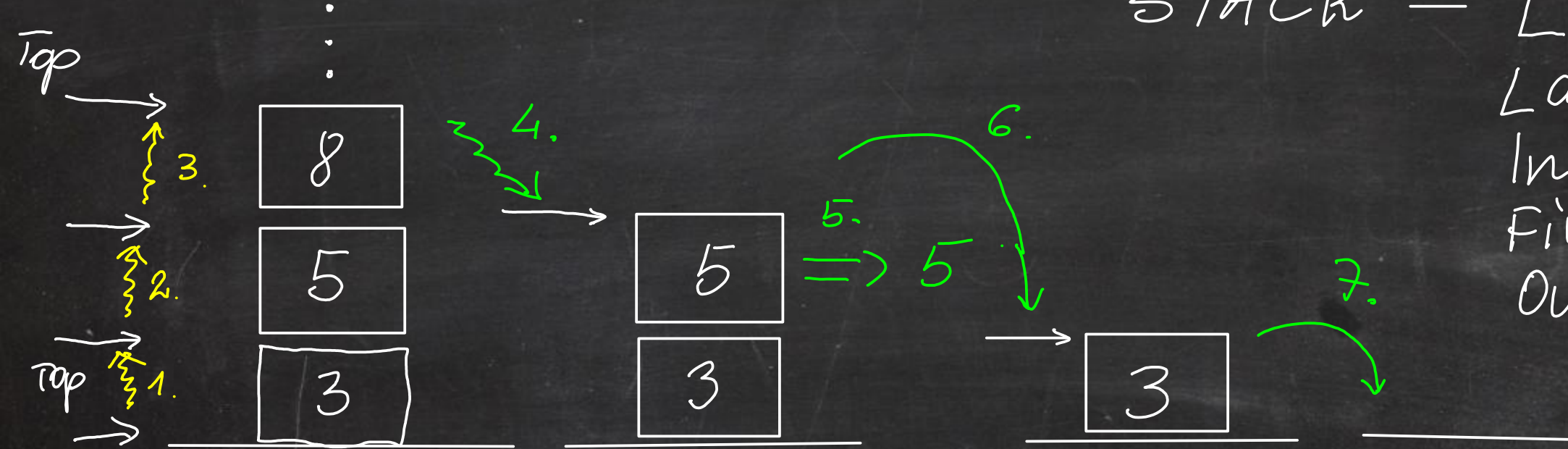
1. push (3)
2. push (5)
3. push (8)

4. pop () $\implies$ 8
5. peek() $\implies$ 5
6. pop () $\implies$ 5

7. pop() $\implies$ 3
8. pop() $\implies$ $\perp$

None

exception

μ_1

0

1

2

'a'

'b'

'c'
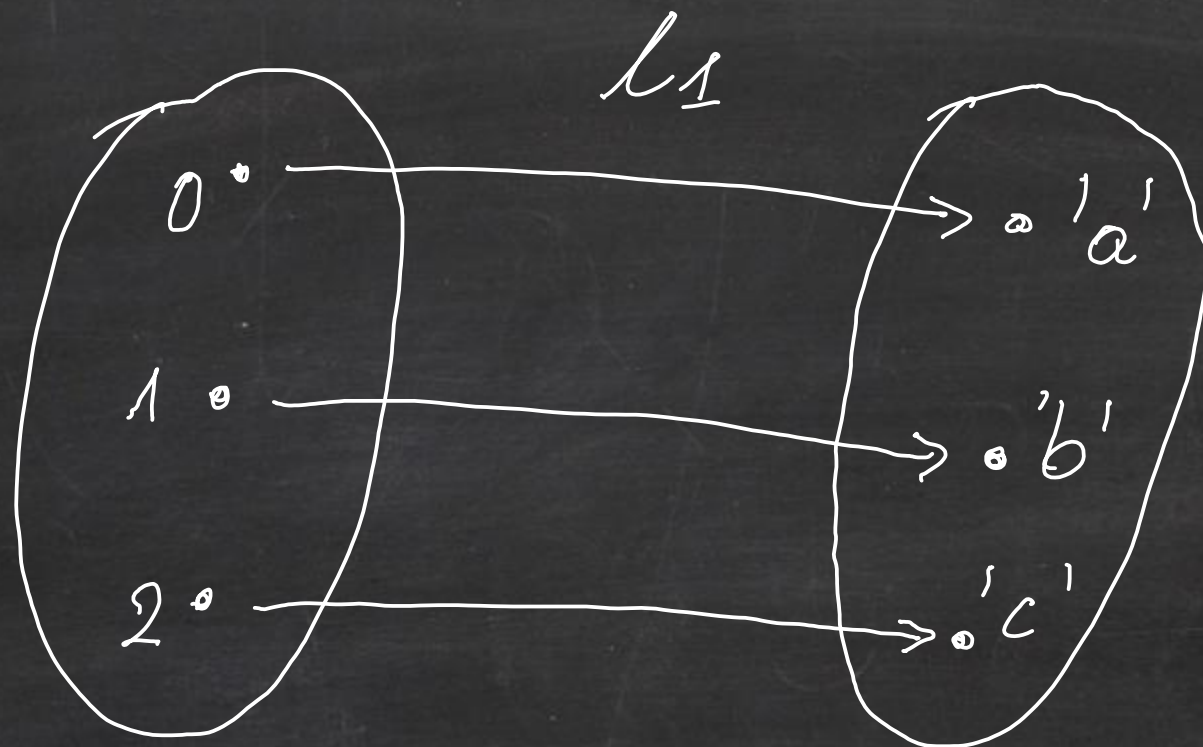
Indexes $\subseteq \mathbb{N}$
(Domain)

(Codomain) $\subseteq X$
Values

X ?

Key-Value Containers
Associative Containers
Maps
Dictionaries
(Objects)

UNORDERED!

Keys
(Indices) $\subseteq$ X

Values $\subseteq$ X

'a'

'b'

'c'

$(5,'d')$

1

2

$[3,4]$

3.14159