

DSA using Python

Circular Linked List

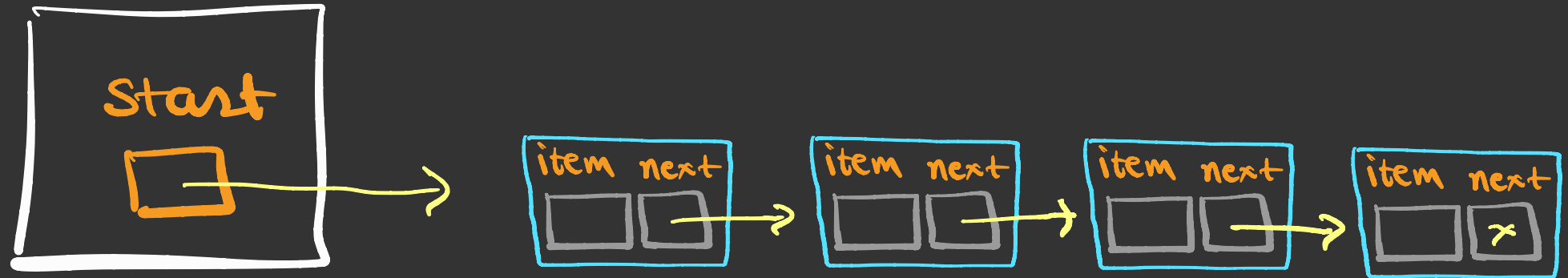


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Agenda

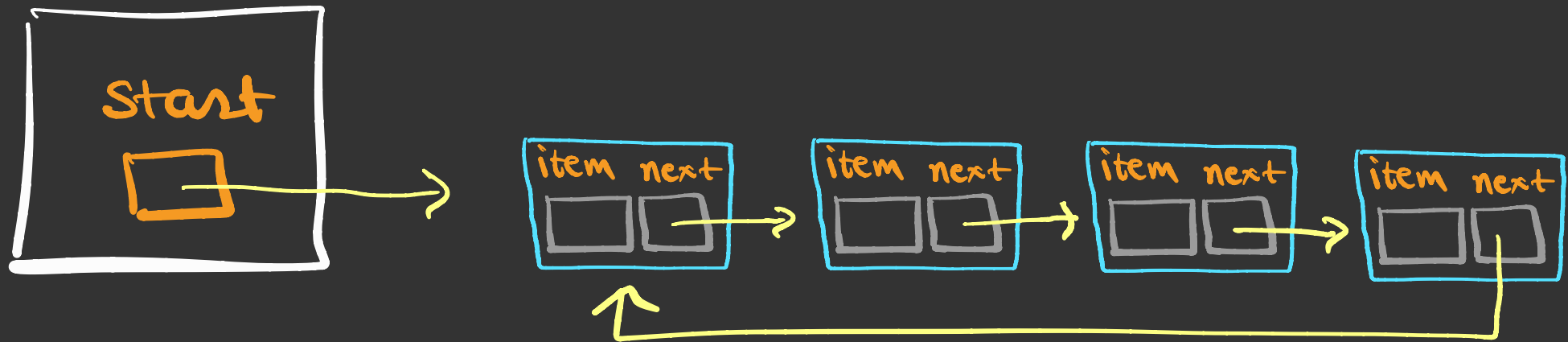
- ① Limitations of Singly Linked List
- ② Circular Linked List
- ③ Elementary operations on CLL

Limitations of SLL



Circular Linked List

Circular Linked List is a linear data structure.



check for last node

if $temp.next == start :$

Elementary Operations

① Insertion

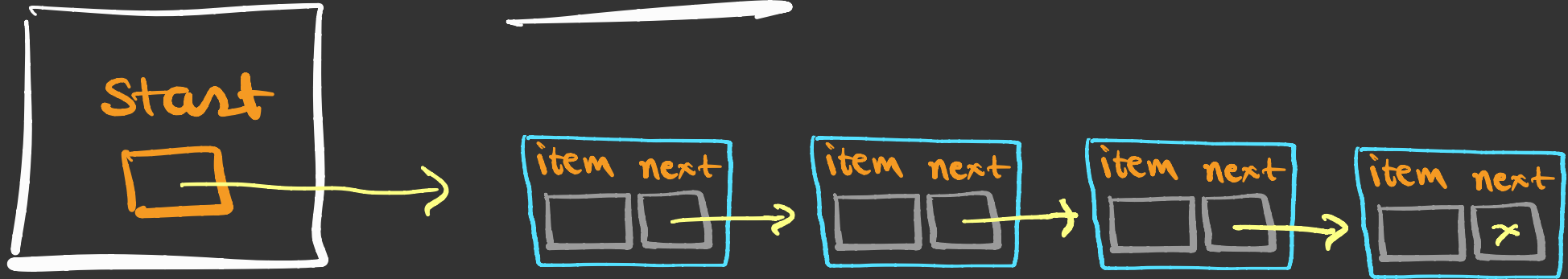
② Deletion

③ Traversing

④ Searching

⑤ checking for empty list

SLL



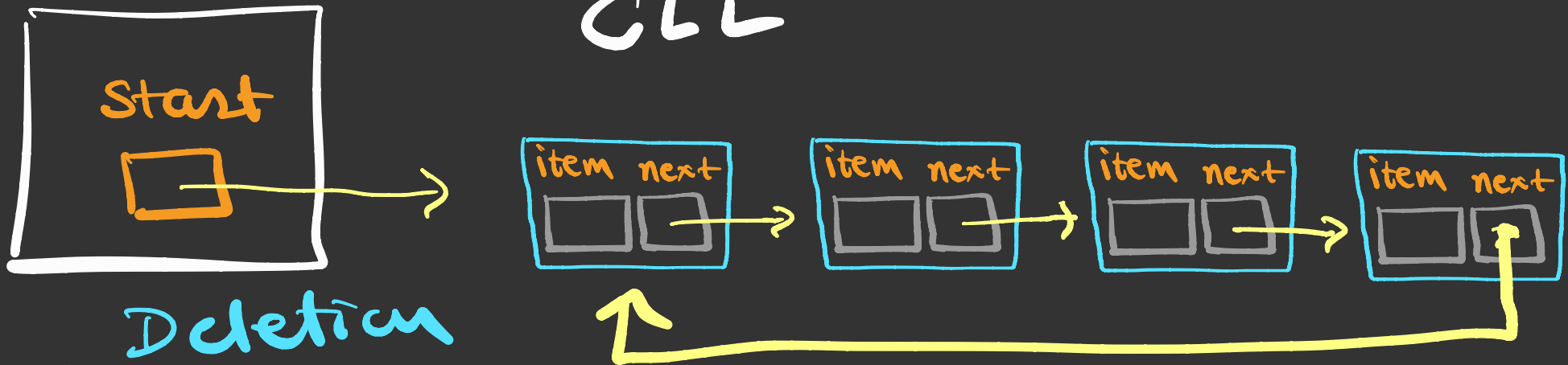
Deletion

- ① first No traversing
- ② last Traversing

Insertion

- ① at start No Traversing
- ② at last Traversing

CLL



Deletion

- ① first Traversing
- ② last Traversing

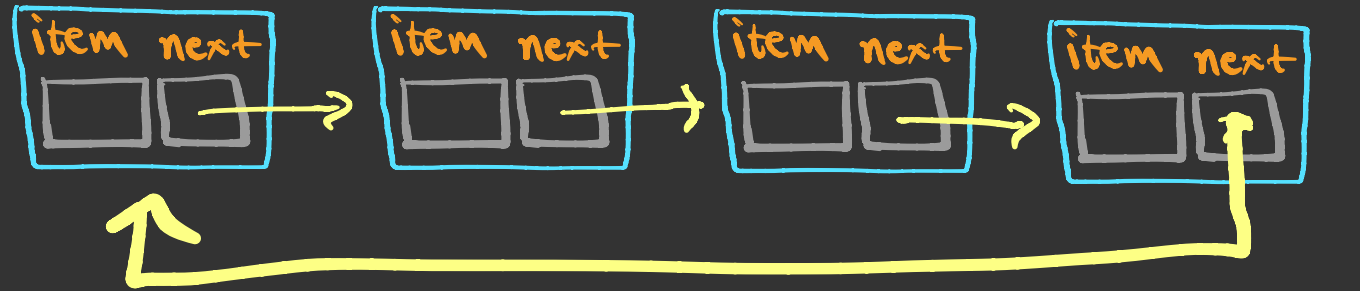
Insertion

- ① at start Traversing
- ② at last Traversing

Insertion

Insertion

- ① start No traversing
- ② last No traversing



Deletion

- ① start No traversing
- ② last Traversing