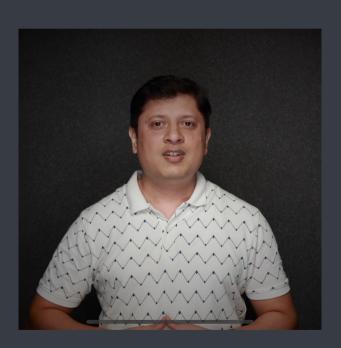
DSA through C++

Singly linked list



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Agenda

- Ptzil a list?
- 2 what is a node
- 3 Singly linked list
- (4) SLL ADT
- (5) Array vs Dynamic Array vs SLL

What is a list?

List is a linear collection of data items also known as list I tem

Example 1

Marks of tests) list of marks 20 15 21 24 18 23 25 list item -> int

Example 2

List of guests

"Singh", "Chaturvedi", "Dubey", "Khan"....

list item -> string char []

List Item -> class

Structure

Example 3 List of Students

Rahul Savita Dilip 17

XYZQX.com XYQX.com xQX.com

What is a node?

```
Example 1
   marks of tests ) list of marks
        20 15 21 24 18 23 25 ....
                                              item next
  Struct node
        int item;
       node* next;
```

Mhat in a node?

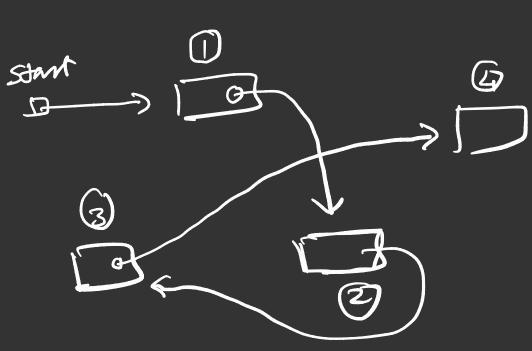
Example-1

Marks of texts) List of marks
20 15 21 24 18 23 25



struct node int item; node *next;

3;



item next

Singly Linked List

- 1) insertion
- 2) deletion

- 1) starting
- 1 Last
- 3 after a node
- O first node
- 1 last node
- 3 specific node

ptr item next

ptr -> item

Array vs Dynamic Array vs SLL Shrinka ble

