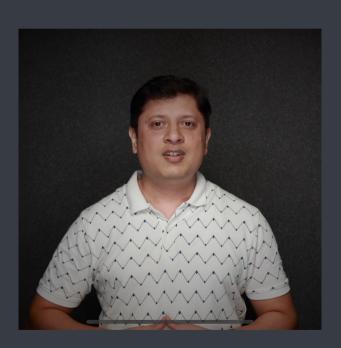
DSA through Java

Singly linked list



Saurabh Shukla (MySirG)

Agenda

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

Presil a dist?

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

Example 1 marks of texts) list of marks 20 15 21 24 18 23 25

list item: int

Example 2 List of guests List item: String

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

Example 3 List of Students

List item: Student

Rahul Savita Dilip 17 19 18 xyz@x.com xy@x.com x@x.com

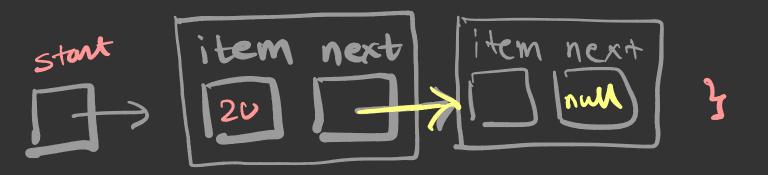
What is a node?

Example-1

class node ?

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

node next;



node start = new node ();

Singly Linked List

- 1) insertion
- 2) deletion
- 3 after a node
- 1 first node
- 1 last node
- 3 specific node

Start Start





Array vs Dynamic Array vs SLL

Array fixed Size

Dynamic Array

growable

<u>5 L L</u>

Dynamic growette Shrinkable

