linked List 3. cpp in G-drive

- Finish up with struct based
 - LL approach
 - Deleting a node
- Classes/Objects Intro

Deleting a node from existing LL e.g. delete specified node

if (specified node == head)
{ 1) update head to point

to head > next 2) free specified unde

- 3 else {
 1) Find node preceding
 specified node
 - 2) Link previous node w/ next node
 - 3) Da allocate memory for deleted node

head

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Given a structure

Struct Time

{ int hour;

int minutes;

String meridien; // am pun

5,

1 main

Time t;

t. hour = 13; // compromised data integrity

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int hour=13; if hour>12 and hour <0 error;

Error prone approach

If we had a way to embed

data validation within the struct...

Classes and Objects

Class is a complex type just like

truct. Instance of a class is an object.

Features of a Class

1. complex type, has members

- 2. Can define member functions, called methods Ly control access to member variables
- 3. Members can be private or public public can be outside the class private can only be accessed by class methods

e.g. caunot access private member inside of main()

4. Constructors are public methods used to initialize objects. They get the same name as the class.

Class E.G.

Create a class called Time 12 for storing time in the 12 hr format.

- 3 private members: int hour, int ainute, string mer
- Constructor takes 3 auguments.
- Public method to display time