Day's Goals

- Recap Class / Object Intro

- Counte a singly linked list class
 - Define constructor
 - Define grow-list method
 - Display list method
 - Define destructor

Recap Class/Object

- Object is an instance of a class.

Similar to structs, but have public as well as private members

- Have member functions called methods. Ly control access to member data

- Constructors used to initialize object of given class.

Ly gets same name as the class

Create a Linked List Class

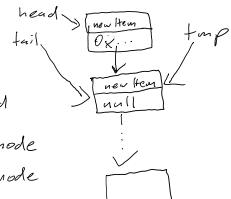
Still use a node struct a before Struct Node 3 string item; Node *next;

Introduce an approach to constructing a LL that lends itself well to class-based

- 1) 2 private members: head and fail pointers
- 2) Public:
 - A) A constructor that initializes both pointers to null.
 - B) A grow method for allocating nodes dynamically (and also fill the node payload).

- If LL is compty:

 1) Allocate node and point head
 - 2) Poit tail to same node
 - 3) Write contents to unde nember
 - 4) Write null to head next (or tail -> next)



Else (LL not empty)

- 1) Use tup pointer and allocate new node
- 2) Write contents to node member
- 3) tmp-> next point to null
- 4) Write Eail->uext = tmp
- 5) Tail pointer point to last node
- c) A destructor gets called automatically when object goes out of scope.

 Ly deallocate dynamic memory
- D) Display function
 traverse & cout