CS 2100 - Basic Linked Lists

Announcements

- Lab due Friday
- HW due Sunday
Recap of arrays

Limits
- not very flexible
  - size is fixed at creation
  - 1 kind of data
  - inserting + moving can be difficult

Q: How would we insert an element in the middle of an array?

ex: Insert (20) in sorted order:

```
2 5 6 11 20 25 26 31 40
```

loop
Singly Linked Lists

A collection of nodes that together form a linear ordering.

- **LAX** → **STL** → **MSP**

Memory

- MSP 105
- ...
- LAX 263
- ...
- STL 1036

**Insert**:
Let's finish coding!

**Goal:**
- Insertion and deletion (at head)
- Basic info: test if empty & get data from head
- Proper housekeeping!
Code

See SlinkedList.h & SlinkedList.cpp