CS2100

Lists
Recap

- Extra credit due Monday (via git)
- HW due Friday
- Lab due Friday
- Next HW (over lists) due Monday after break
Last time:
Doubly linked lists
Goal:
- Python-like list functionality
- Linked structure

We did:

- Node struct
- Iterator class
- Const iterator class
- "Easy" functions:
  - Constructor
  - Empty
  - Front
  - Back
Today: insert

in main:

mylist.insert(it, "EWR");
Next:

```cpp
mylist.erase(it);
```

```
Node* p = it->current
```

```
delete p;
return (prev of p)
```
Last but not least:

Housekeeping!

Similar to SLinkedList, but more pointers.
Runtimes:

Except housekeeping, every function we've coded is O(1) time.

Lost: operator []

> this will be O(n)
Next time:

Searching, sorting, and more trade-offs