

1) Final Project - command line compile

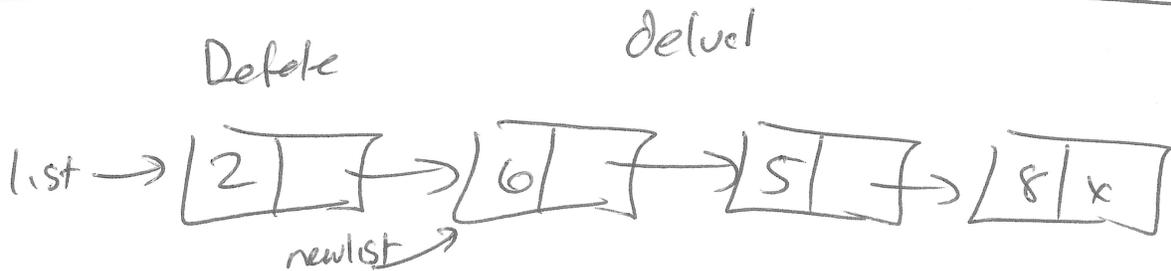
2) Linked Lists

✓ - delete } code these
✓ - reverse }

- Doubly LL } talk, draw pics
- Circular LL }

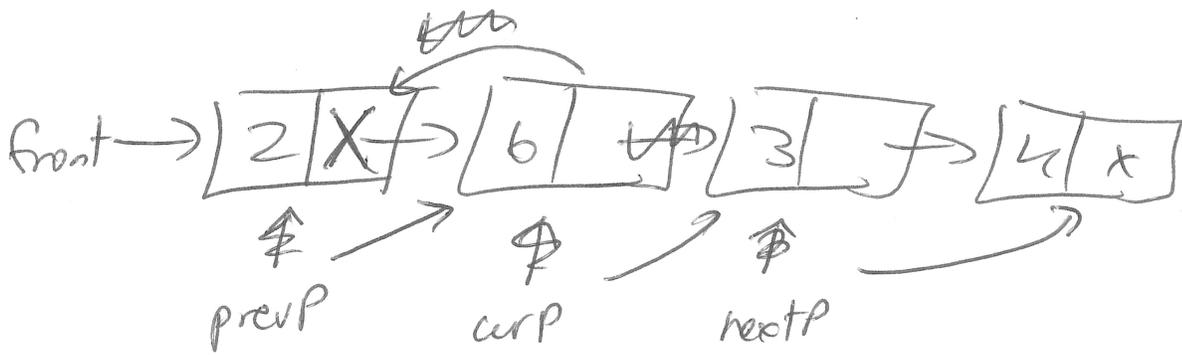
3) Example

- updating a "dictionary" of words
allowing add freq, delete remove
lower freq, search



B.C. { list NULL ret NULL
1st item to be delete
→ save ptr 2nd item
→ free(1st node)
→ return saved ptr

else list → next = remove(list → next, delval);
return list;



1. ~~prevP~~ · curP → next = prevP

2. ~~nextP = nextP → next~~ (oops loses 3)
prevP = curP

3. curP = nextP

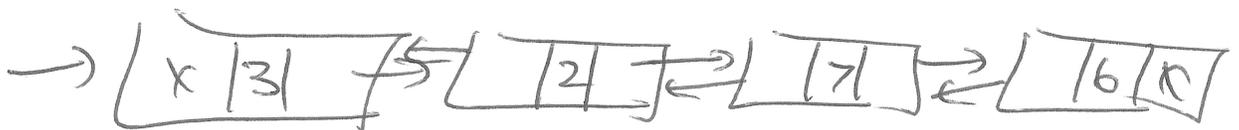
4. nextP = nextP → next;

Doubly LL

struct node {

struct node* prev;
int data;
struct node* next;

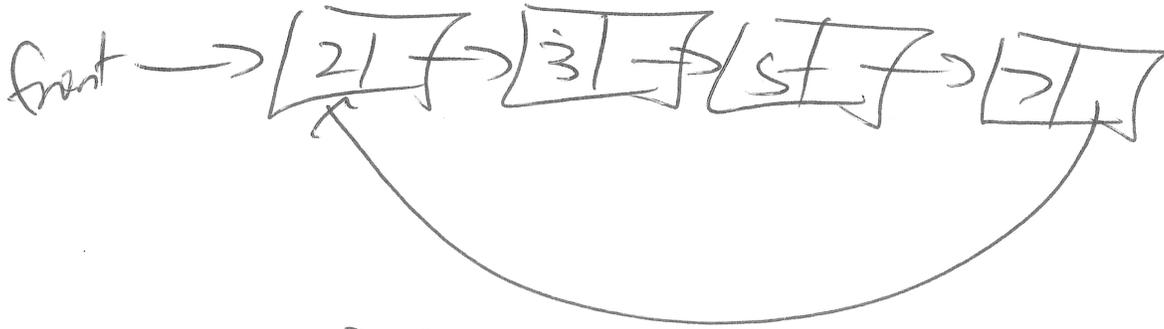
};



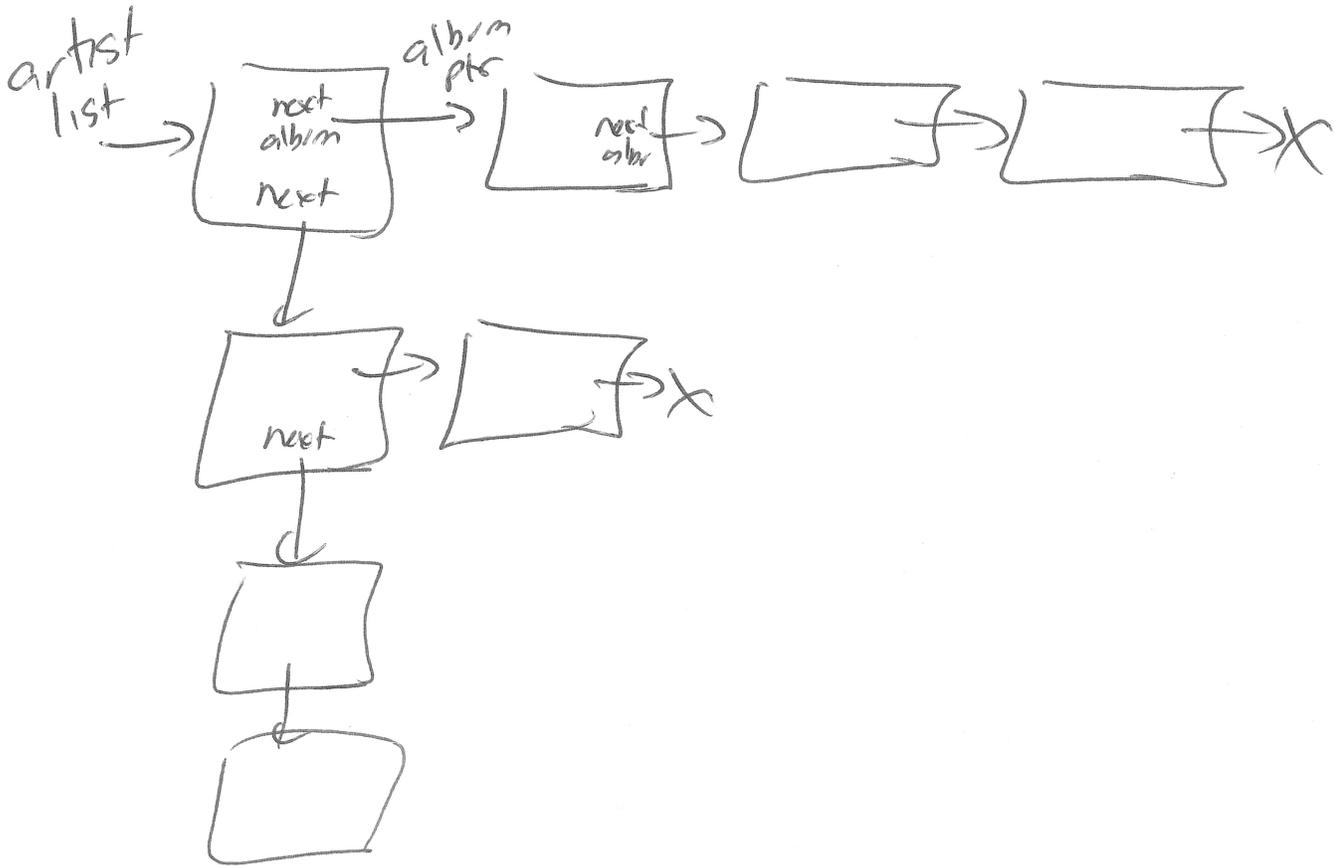
1) Benefit - you don't lose access by going → next

2) Drawback - more storage

MORE WORK TO MAINTAIN POINTERS



Differences in maintaining structure
Where's the end?



My example

functionality

+1 string

-1 string

get returns freq for string

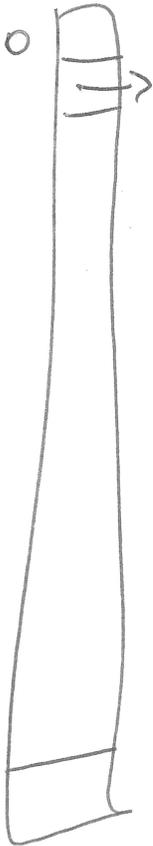
remove

"String" → "int"

acardark → 10

ate → 100

empty = 0, a = 1, b = 2, ... z = 26



$$\text{cat} = \cancel{3 \times 27^2} + 3 \times 27^2 + 1 \times 27^1 + 20 \times 27^0$$

$$\text{ba} = 0 \times 27^2 + 2 \times 27^1 + 1 \times 27^0$$