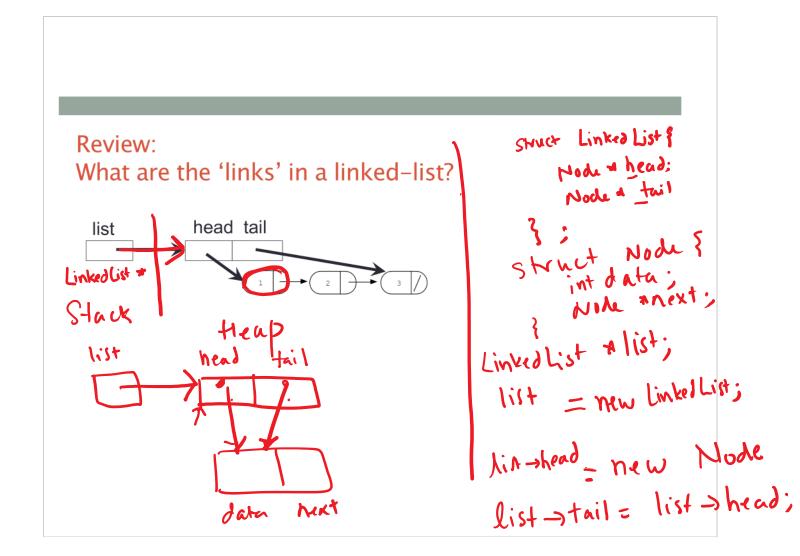
## LINKED LISTS (CONTD) DYNAMIC MEMORY PROBLEMS

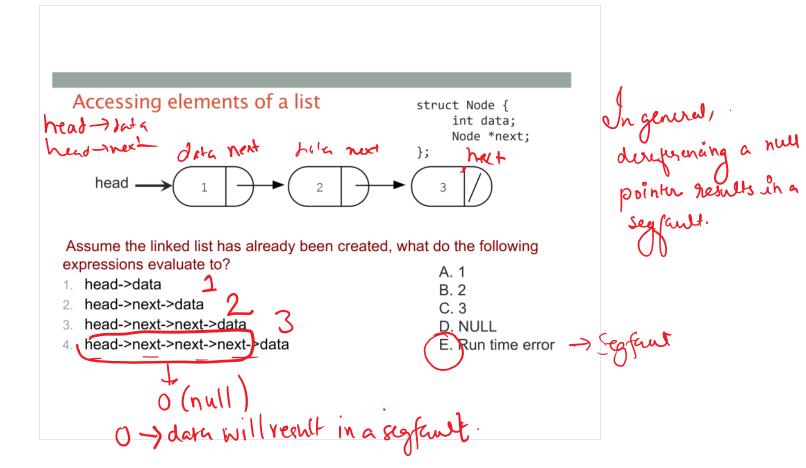
Problem Solving with Computers-I

https://ucsb-cs16-sp17.github.io/









## Building a list from an array LinkedList \* arrayToLinkedList(int a[], int size); 115+ the fleap linked hist tail til Silezo aro 10 10 silel data next Node 1p = New No 4 36 10

```
Iterating through the list

int length Of List (Linked List + list) {

// Method 1: iterating through the linked list using a while loop

int (ount = 0; // Initialize a counter to 0

Node *p = list > head; // Initialize a traversal pointer

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While (p) {

Count ++;

p = p > next; // Mouch

Thunk

Teturn with the node

P = p > next; // Mouch

Thunk

The node

P = p > next; // Mouch

Thunk

The node

P = p > next; // Mouch

Thunk

Node
```

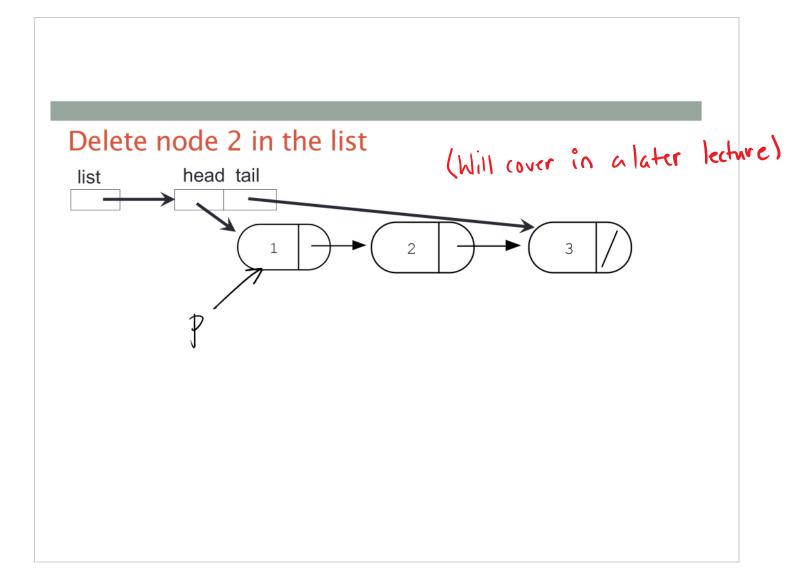
// Memod 2: using a for loop

int rount 20;

for (Node \*p = list > head; p!=0; p=p>next);

count ++;

return count;



## Delete the list

int freeLinkedList(LinkedList \* list);

