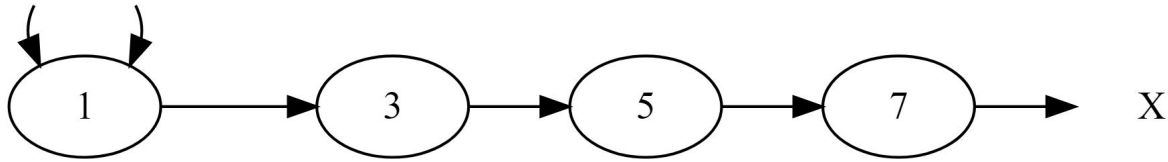


comp1511 week 8

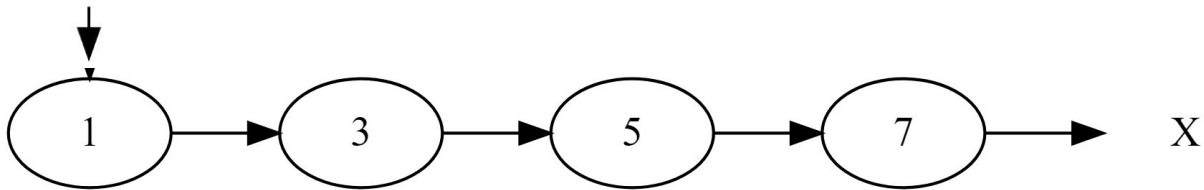
starting ~3:05 pm

looping through a linked list

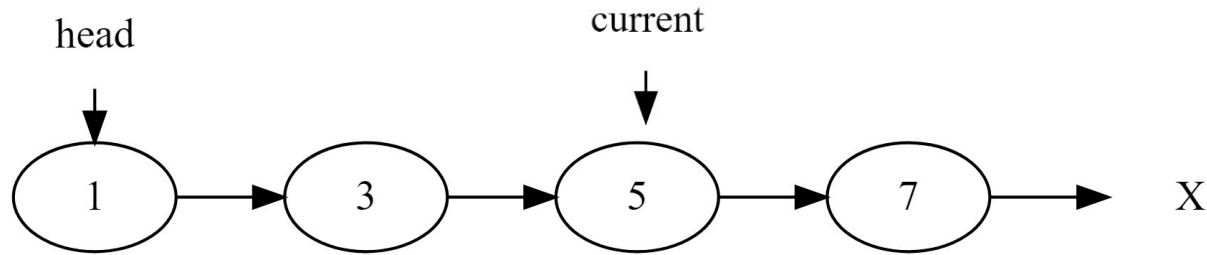
head current



current



printing the last element of a linked list



*you are **ONLY** given a pointer to the first node of the list...
how do you print out the last node of the list?*

printing the last element of a linked list

special case

current



X

diagnosing issues in linked list code

```
int count_length(struct node *list) {  
    int length = 0;  
    struct node *current = list;  
    while (current->next != NULL) {  
        length++;  
        current = current->next;  
    }  
  
    return length;  
}
```

```
#include <stdio.h>  
  
struct node {  
    int value;  
    struct node *next;  
};
```

```
void print_list(struct node *list) {  
    struct node *current = list;  
    while (current->next != NULL) {  
        printf("%d\n", current->value);  
        current->next = current;  
    }  
}
```

Don't just read the code to find the bug - practice writing up diagrams that reflect what the code does, and use the diagram to find the error

notices

- assignment 2 released :)
- assignment 1 marking in progress

style tips

- **nice work overall from everyone :D**
- **variables:** declare them closer to where they are used rather than all at the beginning (especially for loop counters) – why?
- **functions:** short and sweet, should have one task
 - really, really important for writing good code
- **function comments:** they go above the function and explain what the function does
 - input (including assumptions eg. “takes in a valid coordinate”), output (what it returns), any additional effects
 - comments that make sense on their own rather than “stage 1.2”
- ***any others you want to share?***