COMP1511 WEEK 10

Starting at 9:08am

please complete myExperience!



Congrats for making it to Week 10!

- Any reflections on the course / term?
- Favourite parts?
- Things that weren't so good?
- What are you grateful for?

Questions from the course?

Today

- ADTs and Stacks
- A bit on recursion
- Anything you want me to go over
- Labs this week/final exam

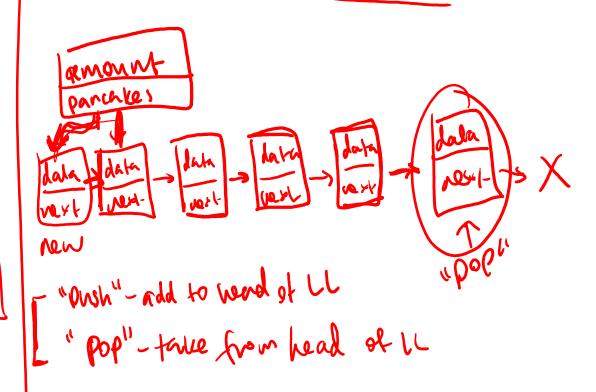
ADTs, a concept – consider a QUEUE Gree Exente queul, see count

· prolect data « nobspart, broppon

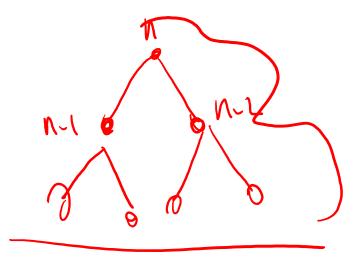




Implementation – linked list



- Recursion $5! = 5 \times 4!$ $3! = 3 \times 1$
- A function that calls itself
 - Breaks itself down into smaller sub-problems
- How to solve any recursion question
 - 1. Write the base/terminating case 0! >1
 - 2. Write the recursive case $n! = n \times (n-1)!$





```
head
                   4096
     int minimum(struct node* head) {
         if (head == NULL) {
pase
             return INT_MAX;
         int curr_min = head->data;
         int rest_min = minimum(head->next); 40%
         if (curr_min < rest_min) {</pre>
             return curr_min;
         return rest_min;
```

Week 10 Lab

- Exam Environment
 - Part 1 (Short Answer/Multiple Choice Questions)
 - Not worth marks today
 - Part 2 (Programming Questions)
 - Some lab exercises for this week found here
 - 7-8 questions in the final exam
- Normal lab exercises
 - 3 lab exercises here (2 dot + 2x3 dot)

Final Exam

- Read-only open book, take-home exam (online)
- Designed to take 3 hours
- A staff member will always be available to contact





https://myexperience.unsw.edu.au/