

COMP1511/1911

Programming Fundamentals

Week 9
Lecture 1

myExperience

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- Please fill out myExperience
 - Please
- <http://myexperience.unsw.edu.au/>



Incentives

- If we get >70% myExperience I will livestream...



Announcements

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- Four more lectures left
 - Home stretch
- Today
 - What I just said
- Tomorrow
 - Exam information/practice
- Next Monday
 - More exam practice
- Next Tuesday
 - Roundtable discussion

Prac Exam

- Online students sign up for a in-person TLB for week 10 practice final exam
 - If you're in an online tut
 - Still go to it
 - Sign up for an in-person one
 - Gain experience in the exam environment!
- Sign up here: <https://buytickets.at/comp1511unsw/2330803>
 - Access code: COMP1511



Week 10 and 11 Drop In Sessions

- You can book a 30 minute time slot with a tutor for one on one help if you need assistance!
 - <https://buytickets.at/comp1511unsw/2330281>



Revision Sessions

- Week 11 revision sessions will help go over the course content in preparation for final exam
 - <https://buytickets.at/comp1511unsw/2325770>



Assignment 2

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- Assignment 2 is out
 - Please do it
 - Also please take care of yourself

Previously On...

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- Linked lists
 - Inserting
 - Traversing
 - Deleting
 - Assignment 2 esque program

Today

- Henry will try and stumble his way through the rest of Ange's example!



Where is the Code?

- Lecture code is updated every hour on the hour
- Live lecture code can be found here
 - <https://cgi.cse.unsw.edu.au/~cs1511/26T2/>



Linked Lists Big Demo

- Useful for Assignment 2

Linked List Big Demo

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- Next up is Merging Folders
 - We want to take two folders and merge them together
 - Takes emails from folder 2, adds them to the end of folder 1
- How can we do this?

Merging Folders

- A few steps to consider
 1. Create the new folder
 2. Check if the first folder is empty
 - a. If not, then the new folder is just folder 2
 3. Otherwise, go to the end of folder 1, and add folder 2 there
 4. Empty the two folders so we avoid memory issues

Merging Folders

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- For problems like this, I enjoy drawing things out

Break time!

...probably?

ICPC Ad

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- Henry promised he would advertise ICPC now

Splitting Folders

- Given a folder, split it based on the email type

Splitting Folders

- We're going to use a tail pointer for this one
 - Why?
- 1. Set up our three folders
- 2. Find current
- 3. Check currents email type
- 4. Put it in the relevant folder
- 5. Make sure to de-link current from its original place
 - We'll also draw this out

Extension

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- Keep track of folder size
 - Make count folders more efficient
- Other possible exercises
 - Create an account struct that has a name and stores all folders
 - From this, print all folders
 - From this, print all emails

What We Learnt

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- Bigger applications of linked lists
 - Helpful for your assignment!

Next Time...

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- Let's start prepping for the big day!
 - (Exam)

Thank You

Questions?