

Poll Results

What if my
question isn't
answered
today?

Doubly Linked
Lists

Quick(ish)
Specific
Questions

Past Exam
Questions

COMP2521 25T3

Revision Lecture (Based on Requests)

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What if my question isn't answered today?
Doubly Linked Lists (optional)
Quick(ish) Specific Questions
Past Exam Questions

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Doubly Linked Lists

Quick(ish) Specific Questions

Past Exam Questions

- Lots of great questions were asked in the poll
- We won't have time to answer all of them
- For the most general questions, I will produce a reference guide indicating where in the lectures you can find your answers
- For the more specific questions (and if you have some after watching the lectures), I recommend organising a consultation time with me. That way I'll be able to answer your question(s).

Alternatively, if there is high enough demand (eg at least 10 students committing to attending live, online), I'll gladly conduct a follow-on lecture in the same or similar format early next week.

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Doubly Linked
Lists

Benefits

Implementation

Inserting

Deleting

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Why might we want doubly linked lists?

- It allows us to move forwards and backwards within a list.
- Depending on the implementation, it can allow easier access to items towards the end of the list.
- Inserting and deleting from the middle of the list (eg ordered lists) in particular can be considered "less fiddly"

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```
struct node {  
    Item data;  
    struct node *prev;  
    struct node *next;  
};  
  
struct list {  
    struct node *head;  
    struct node *tail;  
};
```

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- At the start
- At the end
- In the middle

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(246) BST coding questions where they ask you to traverse a tree and find the sum/difference of opposing nodes

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(241) Regular hasCycle check vs the hasCycle check for Kruskal's

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(241) How to apply dfs and bfs in a tree question

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(240) Is it possible to search for all different cycles in a graph?

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(238) How to compare 2 trees

What kinds of things could we compare 2 trees on? How would we go about doing that?

Things to consider:

- Past exam questions (292)
- Practice exam-style questions. Coding questions involving graph traversals such as BFS, DFS and algorithms like Kruskal's etc (297)
- Go through 1 or 2 past exam papers. No need to code - just some ideas on how to tackle the questions and explain how the marking for that paper works. (255)

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Deriving time complexity from written code.

Let's look at Q1c in

<https://cgi.cse.unsw.edu.au/~cs2521/25T2/past-exam/22T1>.

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More theory exam questions:

Let's look at Q3a,b, Q4, Q5b in

<https://cgi.cse.unsw.edu.au/~cs2521/25T2/past-exam/22T1>.

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Programming exam question(s):

Let's look at Q9 or Q10 in

<https://cgi.cse.unsw.edu.au/~cs2521/25T2/past-exam/22T1>.

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Cheapest Flights Within K Stops leetcode:
[https://leetcode.com/problems/
cheapest-flights-within-k-stops/description/](https://leetcode.com/problems/cheapest-flights-within-k-stops/description/)