



# Welcome to this **Co**Grammar QnA : Recursion, Sorting and Searching

The session will start shortly...

Questions? Drop them in the chat.  
We'll have dedicated moderators  
answering questions.



# Software Engineering Session Housekeeping

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- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly.

## **(Fundamental British Values: Mutual Respect and Tolerance)**

- No question is daft or silly - **ask them!**
- There are **Q&A sessions** throughout this session, should you wish to ask any follow-up questions.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: [Questions](#)

## Software Engineering Session Housekeeping cont.

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- For all **non-academic questions**, please submit a query: [www.hyperiondev.com/support](http://www.hyperiondev.com/support)
- Report a **safeguarding** incident: [www.hyperiondev.com/safeguardreporting](http://www.hyperiondev.com/safeguardreporting)
- We would love your **feedback** on lectures: [Feedback on Lectures](#)
- If you are hearing impaired, please kindly use your computer's function through Google chrome to enable captions.

# Safeguarding & Welfare

We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:



Ian Wyles  
Designated Safeguarding  
Lead



Simone Botes



Nurhaan Snyman



Rafiq Manan



Ronald Munodawafa



Tevin Pitts

Scan to report a  
safeguarding concern



or email the Designated  
Safeguarding Lead:  
Ian Wyles

[safeguarding@hyperiondev.com](mailto:safeguarding@hyperiondev.com)

**SKILLS  
FOR LIFE**

**SKILLS BOOTCAMPS**



Department  
for Education

# CoGrammar

## Recursion, Sorting and Searching



# Agenda: Recursion, Sorting and Searching




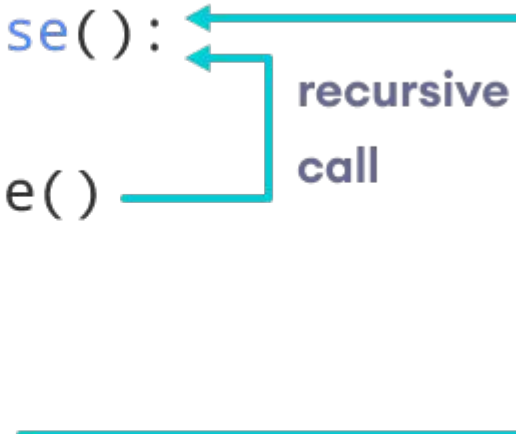
# Online Course Enrollment System

1. Introduction (10 mins)
  - a. Basic principles of recursion
  - b. Basic principles of searching
  - c. Basic principles of sorting
2. Searching
  - a. Linear Search
  - b. Binary Search
3. Sorting
  - a. Bubble Sort
  - b. Insertion Sort
  - c. Selection Sort
  - d. Quick Sort

**Break:** 10 Minutes

**Notes:** Your questions take precedence

# Recursion

```
def recurse():  
    ...  
    recurse()  recursive  
    ...      call  
  
recurse() 
```



# Sorting

Bubble, Insertion, Selection

25	78	0	36	12	3	10
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# Searching

Linear, Binary

25	78	0	36	12	3	10
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# Questions and Answers



# Thank you for attending



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