

# CS-HU 390

## Big-O

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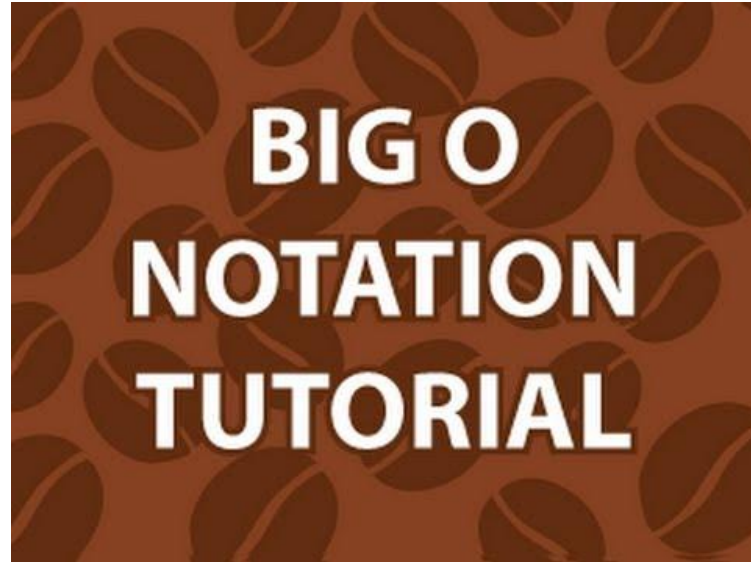


# Outline

- Big O Story
- Sample Problems
- Whiteboarding!!!



# Big O Story



<https://www.youtube.com/watch?v=V6mKVRU1evU>



# Big-O Sample Problems

- Examples 13, 15. [PP 52-54. Cracking the Coding Interview]
- Problem VI.10
- Problem VI.12



## In-class Exercise

**Exercise 1.1.** Implement an algorithm that determines if a string has all unique characters?

What if you cannot use any additional data structures? [p 90 of Cracking the Coding Interview]

- What assumptions do you need to make?
- How much is the run-time complexity of your solution?
- How much is the space complexity of your solution?



# Mock Phone Interview

Homework: Watch this mock phone interview (before next class)

<https://www.coursera.org/learn/cs-tech-interview/lecture/M5aGs/appendix-full-length-mock-phone-interview>