**CSE 212 – Programming with Data Structures**

**W10 Prove – Response Document**

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| **Date:** | November 15, 2021 |
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**Question 1: Provide the outline for the data structures tutorial you are creating for the final project. Use the Python Fundamentals Tutorial outline provided in the assignment instructions as an example.**

**[Example from Python Fundamentals]**

**WELCOME**

* Introduction
* Contact

[**QUEUES**](https://byui-cse.github.io/cse212-course/lesson04/04-prepare.html)

* Introduction
* Structure
* Enqueueing
* Dequeuing
* Example (Customer Support queue)
* Problem to Solve (create library hold queue for a book)

[**SETS**](https://byui-cse.github.io/cse212-course/lesson05/05-prepare.html)

* Introduction
* Structure
* Open Addressing
* Chaining
* Example (Storing 16 instances of randint(1,128), using chaining)
* Problem to Solve (Design a set that uses open addressing to store 16 instances of randint(1,128)

[**TREE**](https://byui-cse.github.io/cse212-course/lesson09/09-prepare.html)

* Introduction
* Binary Trees
* Balancing a BST
* Example (BST Class)
* Problem to Solve (Create a BST to store some type of data)