**CSE 212 – Programming with Data Structures**

**W05 Prove – Response Document**

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| **Date:** | 5/21/2022 |
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**Question 1: From Part 1, how did you answer the interview question for the Set Operations problem (should be no more than 30 seconds if spoken aloud)?**

**To find the intersection I would write a function that would take both sets as parameters. I would loop through the longest set (if they are of the same length then it could be either one) and check if each value from the longest set was in shorter one. If the value existed in both, then I would add it to a new set and then return it.**

**To find the union I would write a function that would take both sets as parameters. I would loop through both sets and add each value to a new set and return it.**

**Question 2: From Part 2, how did you answer the interview question for the Find Pairs problem (should be no more than 30 seconds if spoken aloud)?**

To find a pair, I would write a function that took a single set as a parameter. I would create an empty set to store pairs. With each iteration through the set, I would reverse the value and check if it is in the pairs set. If its reverse value is found, then I would add it to the pairs set. Otherwise, I would add the value to the pairs set.

Remember: You need to submit the following code files in addition to this document:

* 05-prove\_set\_operations.py
* 05-prove\_find\_pairs.py