CSE 212 – Programming with Data Structures

**W05 Prove – Response Document**

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| **Date:** | 05/21/2021 |
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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)?**

For both scenarios needs to be 3 sets: set1(), set2(), and set3().

* Union: Since unions rely on OR logic, every unique value in set1 and set2 will make it to set3.
  + Solution: Add set1 & set2 to set3. The set will automatically throw out duplicates.
* Intersection: These rely on AND logic, so only values present in set1 and set2 will be put in set 3.
  + Solution: Create an IF statement that can match values in set1 with set2. If any are equivalent, add them to set3.

**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)?**

Create an empty set. See if the value of the words list has a reverse in the set. If there is, print the match out. Then add the list value to the set so it can be paired later (provided there are pairs).

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

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