**CSE 212 – Programming with Data Structures**

**W05 Prove – Response Document**

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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)?**

**One should create an empty set for both, then make a loop for each item or datum in the set.**

**-For the intersection of two sets, if an item is in set 2 as well, you add the item to the new set, showing what has overlap between the two sets**

**-For the union of two sets, you create two loops. For each item in set 1, you add the item to the new set. Same goes for the second set. Since sets contain no duplicates, they should result in having all unique values in the new set.**

**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 a set from the string and make a new hash set, use a variable to check for a reversed string. Then make a for loop, where a word will be added to the set, and set the variable for reverse words to equal the combined addresses of the next word. Then check if the set contains the reverse word, and print the words as a pair, but if there’s duplicates it won’t print them.**

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

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