**Question 2: Word Pair**

| Total Scored out of 9 |  |
| --- | --- |

**Part (a) WordPairList 5 points**

Intent: Form pairs of strings from an array and add to an ArrayList

+1 Creates new ArrayList and assigns to allPairs

+1 Accesses all elements of words (no bounds errors)

+1 Constructs new WordPair using distinct elements of words

+1 Adds all necessary pairs of elements from word array to allPairs

+1 On exit: allPairs contains all necessary pairs and no unnecessary pairs

**Part (b) numMatches 4 points**

Intent: Count the number of pairs in an ArrayList that have the same value

+1 Accesses all elements in allPairs (no bounds errors)

+1 Calls getFirst or getSecond on an element from list of pairs

+1 Compares first and second components of a pair in the list

+1 Counts number of matches of pair - like values

Question-Specific Penalties

-1(z) Constructor returns a value