Part (a)

public WordPairList(String[] words)

{

allPairs = new ArrayList<WordPair>();

for (int i = 0; i < words.length - 1; i++)

{

for (int k = i + 1; k < words.length; k++)

{

Wordpair w1 = new WordPair(words[i], words[k]);

allPairs.add(w1);

}

}

}

Part (b)

public int numMatches()

{

int count = 0;

for (int i = 0; i < allPairs.size(); i++)

{

String first = allPairs.get(i).getFirst();

String second = allPairs.get(i).getSecond();

if( first.equals(second) )

{

count++;

}

}

return count;

}