

You got 2 out of 2 correct. 100.00%

Pass

true

Activity: 7.3.5.1 ActiveCode (ArrayListWordPair1)

Checking that code contains ArrayList declaration

FRQ WordPairs Challenge: Complete the constructor for WordPairsList below which will add pairs of words from a given array to the ArrayList. Then, complete the method numMatches() as described below this exercise.

Pair? Download Show CodeLens Reformat 11/10/2024, 12:51:31 PM - 5 of 5 1 //Code by Akshat Garg 2 import java.util.*; 4 public class WordPairsList 5 { private ArrayList<WordPair> allPairs; 6 8 public WordPairsList(String[] words) 9 10 // WRITE YOUR CODE HERE 11 // initialize allPairs to an empty ArrayList of WordPair objects 12 allPairs = new ArrayList<WordPair>(); 13 // nested loops through the words array to add each pair to allPairs 14 for (int k = 0; k < words.length-1; k++){ 15 for (int i = k + 1; i < words.length; i++){ allPairs.add(new WordPair(words[k],words[i])); 16 17 18 } 19 20 21 public int numMatches() 22 23 int count = 0; 24 // Write the code for the second part described below 25 for (int j = 0; j < allPairs.size();j++){</pre> 26 if (allPairs.get(j).getFirst() == allPairs.get(j).getSecond()){ 27 count++; 28 } 29 30 return count; 31 32 33 public String toString() 34 35 return allPairs.toString(); 36 } 37 38 public static void main(String[] args) 39 String[] words = {"Hi", "there", "Tyler", "Sam"}; 40 41 WordPairsList list = new WordPairsList(words);

[(Hi, there), (Hi, Tyler), (Hi, Sam), (there, Tyler), (there, Sam), (Tyler, Sam)] The number of matched pairs is: 0

Result	Expected	Actual	Notes
Pass		[(Hi, there), (Hi, Tyler), (Hi, Sam), (there, Tyler), (there, Sam), (Tyler, Sam)]	Part 1 - Add all word pairs from main()
Pass	[(Hi, Hi), (Hi, Test), (Hi, Test), (Hi, Test), (Hi, Test), (Test, Test)]	[(Hi, Hi), (Hi, Test), (Hi, Test), (Hi, Test), (Hi, Test), (Test, Test)]	Part 1 - Add all word pairs with {"Hi", "Hi", "Test", "Test"}
Pass	The number of matched pairs is: 2	The number of matched pairs is: 2	Part 2 - numMatches() with {"Hi", "Hi", "Test", "Test"}

You got 3 out of 3 correct. 100.00%

System.out.println(list);

42

Activity: 7.3.5.2 ActiveCode (challenge-7-3-WordPairs)

I honestly expected some error from the allPairs.get(j).getFirst() on line 26, it just seemed awkward. Instead it turned out quite smooth and I didn't even get any errors. I didn't see the pseudocode at first and made the traversal myself, and was pleased to see the bounds line up perfectly with the pseudo code and my solution. Pretty fun and interesting problem, very smooth.