Part 1

words.txt	story.txt	ArrayList	0 mins	00.0059775	<u>secs</u>	0	<u>mins</u>	00.0006125	secs	l
words.txt	story.txt	LinkedList	0 mins	00.0007160	<u>secs</u>	0	<u>mins</u>	00.0008084	secs	
words.txt	story.txt	SortedArrayList	0 mins	00.0008240	<u>secs</u>	0	<u>mins</u>	00.0001991	secs	
story.txt	words.txt	ArrayList	0 mins	00.0006084	<u>secs</u>	0	<u>mins</u>	00.0000226	secs	
story.txt	words.txt	LinkedList	0 mins	00.0004430	<u>secs</u>	0	<u>mins</u>	00.0000887	secs	
story.txt	words.txt	SortedArrayList	0 mins	00.0019743	<u>secs</u>	0	<u>mins</u>	00.0000402	secs	

Part 2

Fastest

Check words array

Check words sorted

Check words linked

Check bible sorted

Check bible array

Check bible linked

Add words arrayList

Add words linked

Add words sorted

middle

Add bible arrayList

Add bible linked list

Slowest

Add bible sorted

Why

Each of the checks takes up very little time as a for each loop is used, which can limit the amount of actual search time. The creation in of all of the words sets was also marked as fast because of the size of the list compared to the size of the bible. In the middle is the two bible adds that would only take O(n) so long as the next add location is tracked in the linked list, because they only need to be added, and not then resorted. Add bible sorted is predicted to be the slowest because of the amount of time it will take as the list gets larger to sort through and find the correct position to place the new item in.

Part 3

	words.txt	kjV10. <u>txt</u>	ArrayList	0 mins 00.0061109 secs 0 mins 00.0169623 sec	<u>s</u>
	words.txt	kjV10. <u>txt</u>	LinkedList	0 <u>mins</u> 00.0007542 <u>secs</u> 0 <u>mins</u> 00.0601972 <u>sec</u>	<u>s</u>
				0 <u>mins</u> 00.0008465 <u>secs</u> 0 <u>mins</u> 00.0948477 <u>sec</u>	
				0 <u>mins</u> 00.0531950 <u>secs</u> 0 <u>mins</u> 00.0047606 <u>sec</u>	
	kjV10. <u>txt</u>	words.txt	LinkedList	0 <u>mins</u> 00.0383454 <u>secs</u> 0 <u>mins</u> 00.0211408 <u>sec</u>	<u>s</u>
- 1	kjV10.txt	words.txt	SortedArrayList	0 mins 30.1358838 secs 0 mins 00.0052463 sec	s