

Taylor Herb
INFSCI2500 HW3

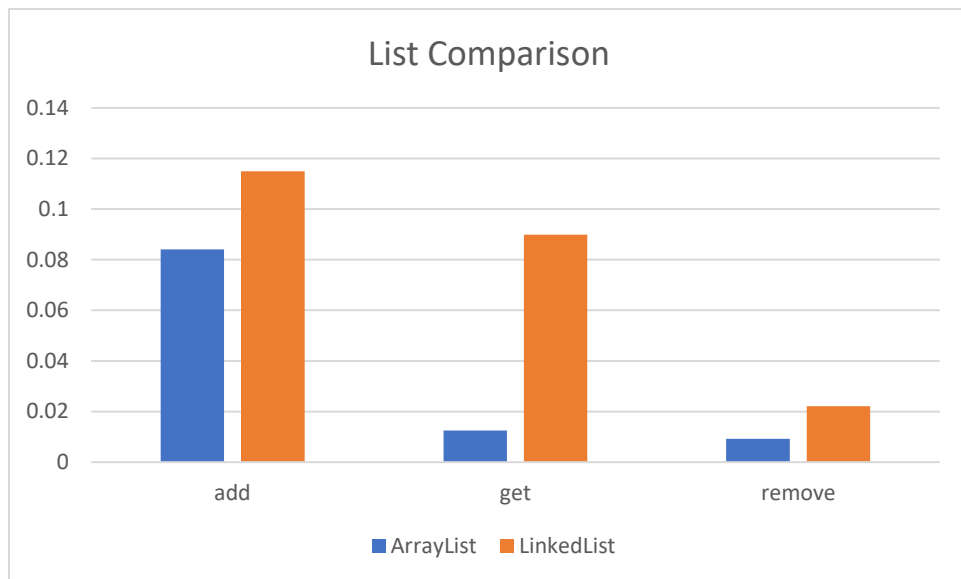
```
25 //LINKEDLIST ADD
26
27 start = System.nanoTime();
--
```

Problems @ Javadoc Declaration Console Coverage

<terminated> ListComparison [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Oct 4, 2018, 2:25:45 PM)

ArrayList add: 0.084113414 secs
LinkedList add: 0.114973583 secs
ArrayList get: 0.012522189 secs
LinkedList get: 0.089893747 secs
ArrayList remove: 0.009204212 secs
LinkedList remove: 0.022162144 secs

Writable Smart Insert



I expected add and remove to be faster with LinkedList than ArrayList since it should be easier to add/remove using LinkedList (LinkedList should have $O(1)$ and ArrayList has $O(n)$). However, my output shows that it was faster to add and remove in ArrayList.

The output for get is what I expected since it's easier to access using ArrayList. I did have to reduce the size of my iterator for the get method while using the LinkedList because looping through 1 million entries made the program time out. So this output shows how long it takes for the LinkedList to access 9000 entries vs the ArrayList accessing 1 million entries.