Question 4

The time complexity is the same for both the insertion and bubble sort. For worst case scenario and average case scenario they're both $O(n^2)$ and best case scenario is $O(n)$

for Question 1 it asks us to compare the runtimes.

v1 vs. linked list 1

0 vs. 1 ← so v1 is faster when filling w/ random #'s

v2 vs linked list 2 ← so v2 runtime is equal to ll2 runtime
0 vs 0. when filling w/ random strings

v3 vs linked list 3 ← v3 runtime is ≈ equal to ll3 runtime
0 vs 0 when using move semantics to do the above

In the code I outputted the values of each vector and linked lists b/c I couldn't output the runtime.