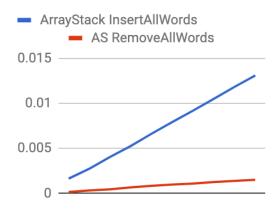
ArrayStack:

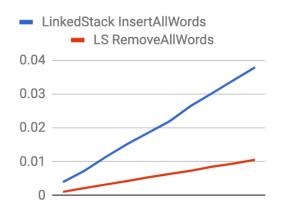


Observed time complexity:

Insert: O(1). Inserting n words takes O(1) * n = O(n) time, as observed in the graph.

Remove: O(1). Removing n words takes O(1) * n = O(n) time, as observed in the graph.

LinkedListStack:

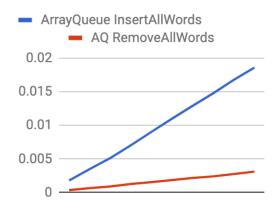


Observed time complexity:

Insert: O(1). Inserting n words takes O(1) * n = O(n) time, as observed in the graph.

Remove: O(1). Removing n words takes O(1) * n = O(n) time, as observed in the graph.

ArrayQueue:

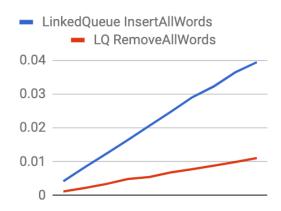


Observed time complexity:

Insert: O(1). Inserting n words takes O(1) * n = O(n) time, as observed in the graph.

Remove: O(1). Removing n words takes O(1) * n = O(n) time, as observed in the graph.

LinkedListQueue:



Observed time complexity:

Insert: O(1). Inserting n words takes O(1) * n = O(n) time, as observed in the graph.

Remove: O(1). Removing n words takes O(1) * n = O(n) time, as observed in the graph.