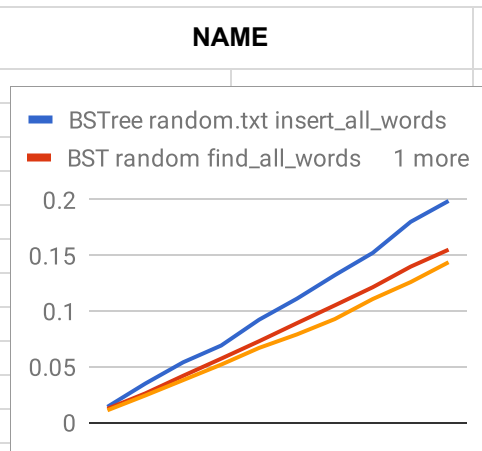
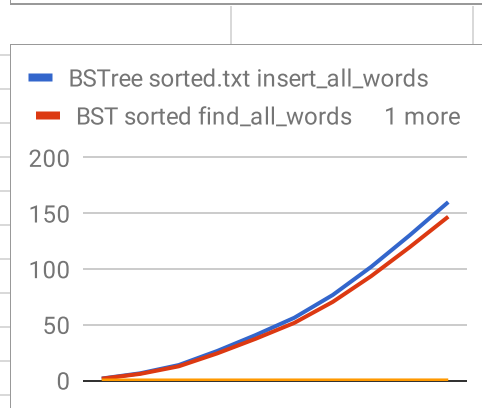


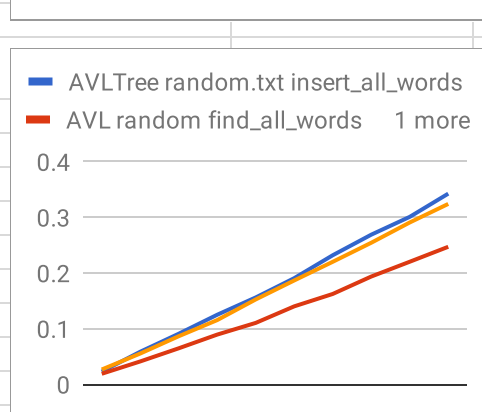
Partition (of N)	BSTree random.txt insert_all_words	BST random find_all_words	BST random remove_all_words
1	0.014072	0.012342	0.010981
2	3.50E-02	0.026134	0.024298
3	5.41E-02	0.041987	0.038123
4	0.06912	0.05734	0.051982
5	9.23E-02	0.072984	0.066989
6	0.11123	0.089234	0.079123
7	1.32E-01	0.105234	0.092918
8	1.52E-01	0.121497	0.110911
9	1.80E-01	0.139983	0.126123
10	0.198992	0.155214	0.143912



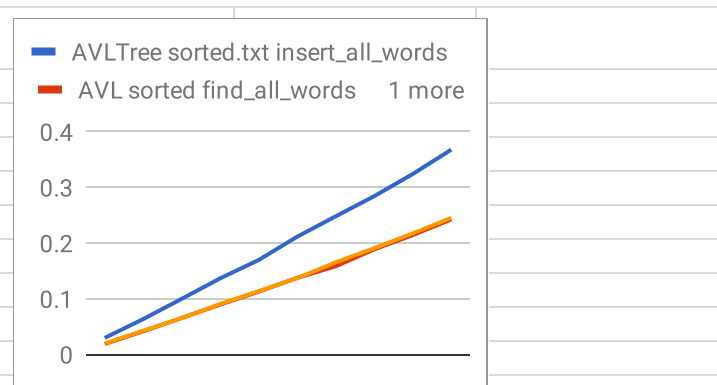
Partition (of N)	BSTree sorted.txt insert_all_words	BST sorted find_all_words	BST sorted remove_all_words
1	1.74304	1.60042	0.00586
2	6.47494	5.94517	0.01126
3	13.8809	12.7452	0.01661
4	26.5289	24.3593	0.02174
5	40.8522	37.5098	0.02712
6	56.332	51.722	0.03234
7	76.8111	70.6076	0.0377
8	102.149	93.7921	0.03909
9	130.47	119.7951	0.04882
10	160.238	147.1287	0.05368



Partition (of N)	AVLTree random.txt insert_all_words	AVL random find_all_words	AVL random remove_all_words
1	0.02315	0.01926	0.02692
2	0.05884	0.04143	0.05564
3	0.0912	0.06505	0.08674
4	0.12532	0.08967	0.11571
5	0.15638	0.11068	0.15281
6	0.19103	0.1404	0.18692
7	0.2322	0.16266	0.22041
8	0.26914	0.19394	0.25462
9	0.30116	0.22052	0.29105
10	0.34285	0.24738	0.32438



Partition (of N)	AVLTree sorted.txt insert_all_words	AVL sorted find_all_words	AVL sorted remove_all_words
1	0.02982	0.019	0.01977
2	0.06366	0.04166	0.04268
3	0.1	0.06563	0.06542
4	0.13687	0.08968	0.09077
5	0.16982	0.11296	0.11383
6	0.21171	0.13764	0.13715
7	0.2483	0.15847	0.16564
8	0.28442	0.18893	0.19098
9	0.32418	0.2145	0.21752
10	0.36799	0.24269	0.24549



class::method()	Expected Time Complexity	Graph Observed Time Complexity
BST::insert()	$O(N)$	$O(N)$
BST::find()	$O(N)$	$O(N)$
BST::remove()	$O(N)$	$O(\log n)$
AVL::insert()	$O(\log N)$	$O(\log n)$
AVL::find()	$O(\log N)$	$O(\log n)$
AVL::remove()	$O(\log N)$	$O(\log n)$