

Sheet1

Time for one operation: $3 \times (10^{-6})$

	BST	
Operation	Expected (μs)	Results (μs)
Insert	$O(n * n) \sim 324$	884.74
Search	$O(n * n) \sim 324$	363.956
Delete	$O(n * n) \sim 324$	120.88

	AVL	
Operation	Expected (μs)	Results (μs)
Insert	$O(\log(n) * n) \sim 0.398$	0.85795
Search	$O(\log(n) * n) \sim 0.398$	0.3961
Delete	$O(\log(n) * n) \sim 0.398$	0.61205

	B-Trees	
Operation	Expected (μs)	Results (μs)
Insert	$O(\log(n) * n) \sim 0.398$	0.343
Search	$O(\log(n) * n) \sim 0.398$	0.28165
Delete	$O(\log(n) * n) \sim 0.398$	0.30365

> 1000 Records

	BST(μs)	AVL(μs)	B-TREES(μs)
Insert	128.825	1.4364	0.336
Search	46.072	0.3746	0.2128
Delete	20.6334	0.5918	0.3192

> 5000 Records

	BST(μs)	AVL(μs)	B-TREES(μs)
Insert	287.186	1.3348	0.5797
Search	129.985	0.4072	0.3319
Delete	57.1161	1.1606	0.5589

> 10000 Records

	BST(μs)	AVL(μs)	B-TREES(μs)
Insert	884.74	0.85795	0.343
Search	363.956	0.3961	0.28165
Delete	120.88	0.61205	0.30365

