

dynamicArrayMain				
	with valgrind	without valgrind		
elements	time(ms)		detailed snapshot	Total(B)
1000	10	0	3	4032
2000	20	0	8	8032
4000	80	30	13	16032
8000	320	100	18	32016
16000	1280	390	23	64016
32000	5080	1530	28	128016
64000	20290	6090	33	256016
128000	81180	24360	38	512016

LinkedListMain				
	with valgrind	without valgrind		
elements	time(ms)		detailed snapshot	Total(B)
1000	0	0	6	280160
2000	30	10	40	10200160
4000	100	30	53	10200120
8000	400	140	63	10200120
16000	1630	510	73	10200120
32000	6550	2040		
64000	26330	8180		
128000	142380	33770		

- 1) Linked List Implimentation uses more memory. It uses more memory because it has to pass around structs of larger sizes
- 2) The dynamic array was also the faster implimentation.
- 3) They should be the same speed since both will go through the same number of while/for loops to find the value and then end at that value.

