linkedList			dynamic Array		
N	Memory Usage	Time	N	Memory Usage	Time
1000	0 KB	0 ms	1000	0 KB	0 ms
2000	0 KB	0 ms	2000	0 KB	0 ms
4000	0 KB	30 ms	4000	0 KB	0 ms
8000	0 KB	120 ms	8000	0 KB	0 ms
16000	20 KB	510 ms	16000	0 KB	0 ms
32000	520 KB	2040 ms	32000	0 KB	0 ms
64000	1520 KB	8210 ms	64000	0 KB	0 ms
128000	3516 KB	33340 ms	128000	0 KB	0 ms
256000	7516 KB	233050 ms	256000	0 KB	0 ms

Clearly the linked list implementation used the most memory of the two. This is because in addition to the structure holding data, it also holds a pointer to the next link in the list, thereby increasing the amount to memory needed. Similarly, the dynamic array is the faster of the two structures. I'd guess the reason for this is that there is only need to use pointer math to access a given part of the array, where with the linked list, each data element has its own pointer. If we were to use contains() instead of remove(), I'd expect the dynamic array's time to increase as you need to copy the array each time you remove an element from the array. The linked list you simply have to change the assigned pointers to the previous and next link.