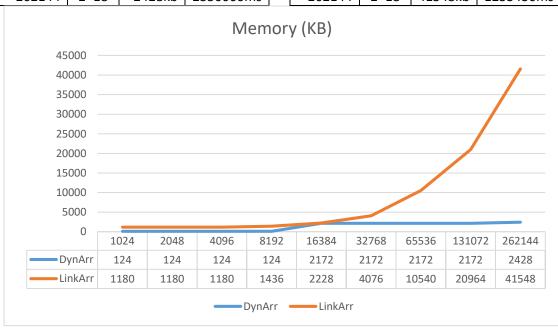
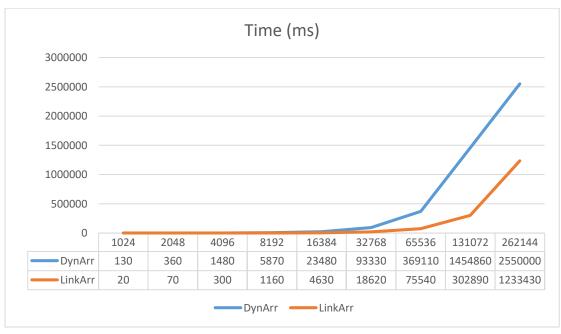
DunArr					
DynArr					
Elements		Memory	Time		
1024	2^10	124kb	130ms		
2048	2^11	124kb	360ms		
4096	2^12	124kb	1480ms		
8192	2^13	124kb	5870ms		
16384	2^14	2172kb	23480ms		
32768	2^15	2172kb	93330ms		
65536	2^16	2172kb	369110ms		
131072	2^17	2172kb	1454860ms		
262144	2^18	2428kb	2550000ms		

LinkArr				
Elements		Memory	Time	
1024	2^10	1180kb	20ms	
2048	2^11	1180kb	70ms	
4096	2^12	1180kb	300ms	
8192	2^13	1436kb	1160ms	
16384	2^14	2228kb	4630ms	
32768	2^15	4076kb	18620ms	
65536	2^16	10540kb	75540ms	
131072	2^17	20964kb	302890ms	
262144	2^18	41548kb	1233430ms	





1. Which of the implementations uses more memory? Explain why.

From what I gathered, it looks like the Linked List uses more memory. This makes sense because each node contains more information than that of an array. Each node holds its own value and set of pointers to other nodes. The dynArr implementation is a set of memory locations that holds a single value.

2. Which of the implementations is the fastest? Explain why.

The Linked list seemed to be faster than the Dynamic Array. Time was not much of a factor until the calculations got to 2^15. The more information the longer it started to take. I would normally think that transversing through an array would be faster, but this was not the case.

3. Would you expect anything to change if the loop performed remove() instead of contains()? If so, why?

I would not expect anything to change. It would take the array much more time to complete the task because it would need to shift each element to make sure there are no gaps. The Linked List only needs to re-associate it pointers which is a quick process. The Array would have to run at O(n) rate.