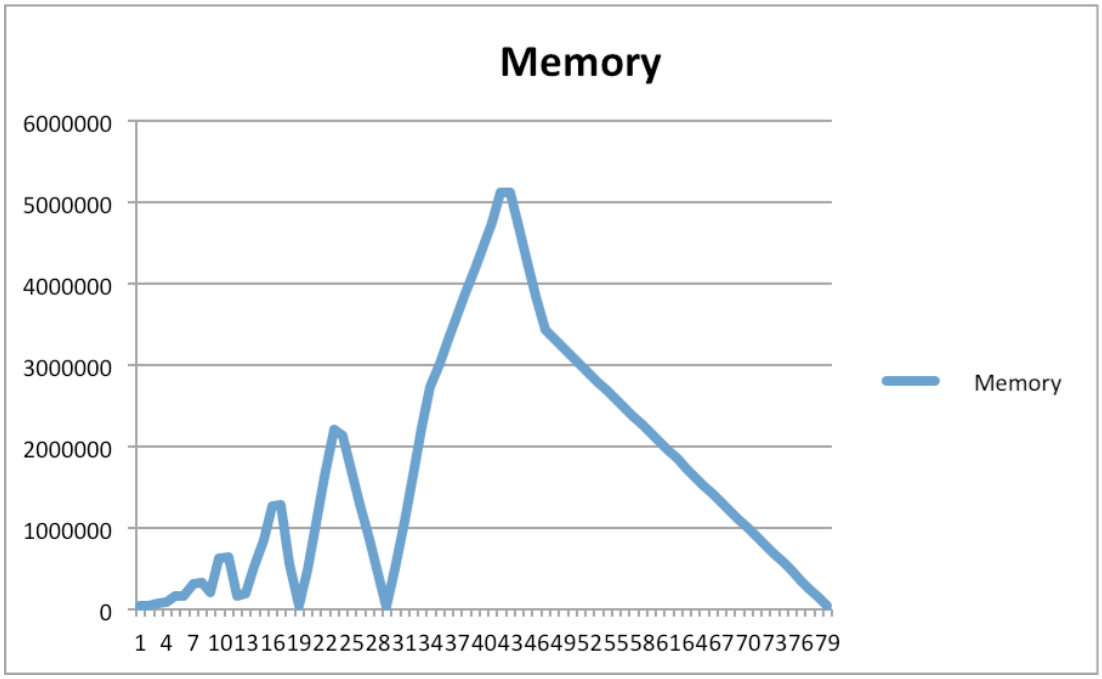
Time Comparison

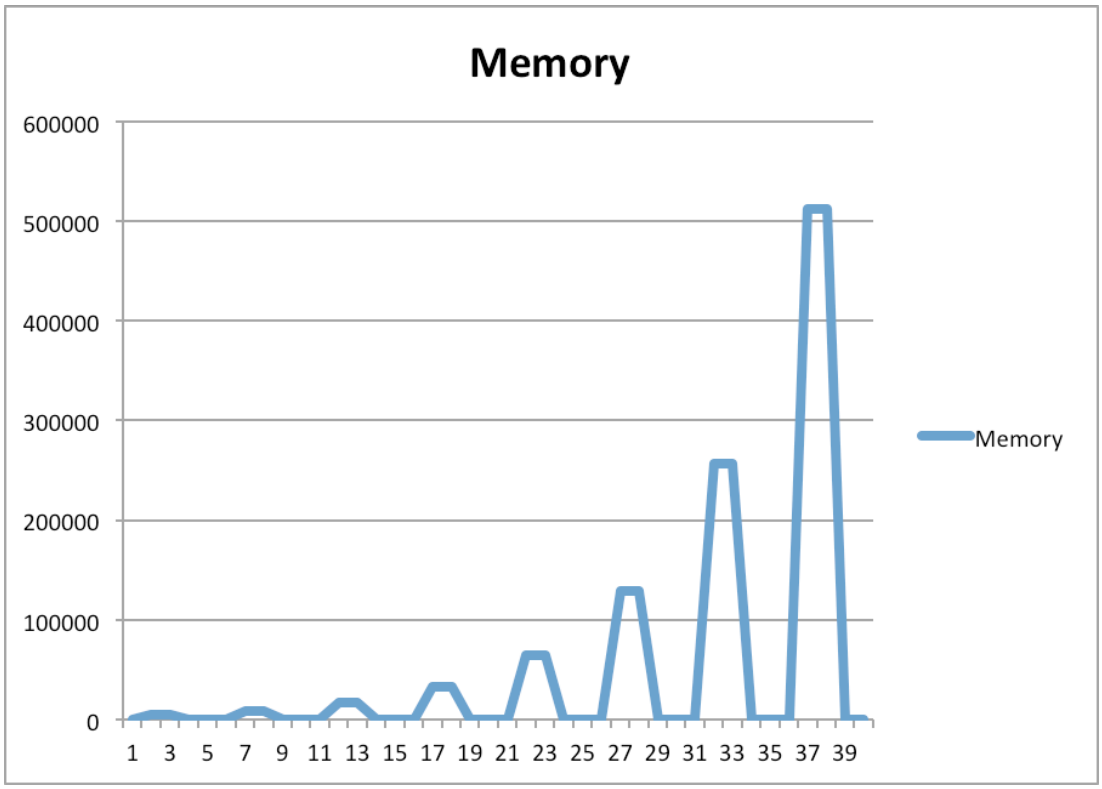
	1000	2000	4000	8000	16000	32000	64000	128000
LinkedList	10	20	80	320	1330	5240	20890	121990
DynamicArray	10	40	170	700	2820	11260	44960	180040

Memory Comparison

Memory of linkedList



Memory of DynamicArray



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

LinkedList uses more memory. Because linkedList needs more memory to store prev pointer and next pointer.

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

LinedList is faster.Because Register can directly find the address of the exactly value.

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

Nothing will change. Because when operating remove() in DynamicArray, the next element will be moved to the previous element's position. But in LinkedList, only need to make the next element's pre pointor points to the previous element. So time of DynamicArray will still be longer.