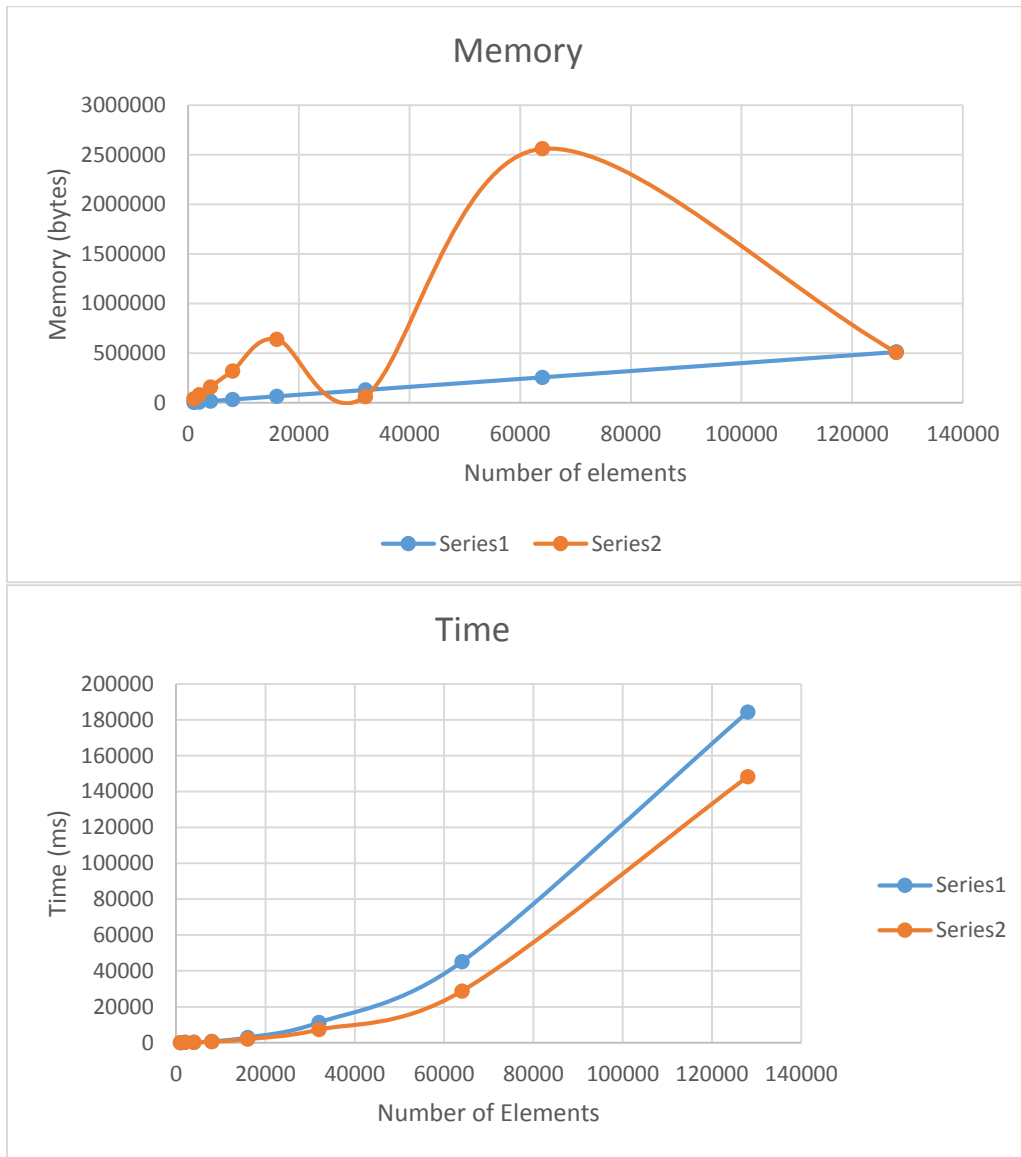


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CS 261

Assignment 3



Where series 1 is the dynamic array and series 2 is the linked list.

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

The linked list uses more memory because a linked list must not only contain its data but the pointers to all the data in order to be accessed.

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

The linked list is faster because to expand an array you must double the size and copy in the information back into the array.

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

The linked list would be faster because the array must iterate through in order to fill the gap left by the element.