Dynamic Array:

1000 = 0kb / 0ms
2000 = 0kb / 0ms
4000 = 0kb / 20ms
8000 = 0kb / 100ms
16000 = 0kb / 380ms
32000 = 0kb / 1540ms
64000 = 0kb / 6200ms
128000 = 0kb / 24470ms
256000 = 0kb / 97850ms

Linked List:

1000 = 0kb / 0ms
2000 = 0kb / 0ms
4000 = 0kb / 0ms
8000 = 0kb / 0ms
16000 = 8kb / 0ms
32000 = 508kb / 0ms
64000 = 1508kb / 0ms
128000 = 3508kb / 0ms
256000 = 7508kb / 0ms

1) Which of the implementations use more memory? Explain why?

The Linked List uses more memory because it stores more information with the pointers.

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

The linked List was faster because it can operate at O(1) while the Dynamic array does it at amortized O(1).

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

If the if the loop performed remove() instead of contain() I think it would be more equal between the two structures.