WHITE PAPER

QUESTION 3

In question 3 to test a stack's speed I declare an array of type int that holds 10,000,000 elements. With a for loop I push 10,000,000 elements inside the ArrayStack and the LinkedStack to measure performance.

• The ArrayStack implementation was a little faster than the LinkedStack but we need to know beforehand the size of the stack.

With another for loop I pop all elements of the ArrayStack and the LinkedStack.

• The ArrayStack implementation was a little faster here as well.

I did not implement search but I expect the ArrayStack to be faster here since it supports random access. The LinkedStack would take more time since it would need to traverse the stack each loo to reach the given index.