Sarah Harber

Assignment 2 – Part 2: Amortized Analysis of the Dynamic Array.

1. 56 Units. Under this strategy for resizing the big-oh complexity for a push is O(1)+.
2. 260 Units. Under this strategy for resizing the big-oh complexity for a push is O(n)?
3. A sequence of N push and pop operations which will result in poor performance would be if you pushed values onto the stack until it double capacity and then immediately popped a value from the stack. This would then cut the capacity in half again. A possible way to adjust the arrays shrinking policy to avoid this would be to shrink the capacity for when the array when it is empty to 1/8th full.