# CS Assessment

Part 1

| Array | doublerAppend | doublerInsert |
|---|---|---|
| extraLargeArray | 4.42526 ms | 930.741649 ms |
| largeArray | 747.833 µs | 7.924516 ms |
| mediumArray | 181.202 µs | 201.395 µs |
| smallArray | 125.01 µs | 67.934 µs |
| tinyArray | 123.859 µs | 51.976 µs |

With small arrays, even up to length of 1000, the 'unshift' method works up to twice as fast as the 'push' method. However, 'unshift' doesn't scale well! As the arrays get larger, the function's runtime increases at a dramatic rate, especially when compared to the 'push' method. By the time the extraLargeArray is run, the 'unshift' method takes over 200 times as long to return. By reading the table above, one can only assume that the 'unshift' method would continue to take longer and longer the larger the array gets.