Results for the extraLargeArray

insert 904.4671 ms

append 3.2133 ms

Results for the largeArray

insert 9.4305 ms

append 542.9 μs

Results for the mediumArray

insert 162.3 μs

append 164.2 μs

Results for the smallArray

insert 47.2 μs

append 107.6 μs

Results for the tinyArray

insert 34.1 μs

append 93.3 μs

As the array gets larger, the doubleAppend function scales better than the doublerInsert function. On smaller arrays up to about the mediumArray, the doublerInsert function is more efficient. We can see this by how long it takes to run. At the mediumArray, the differences between the 2 are basically null, but then differences are stark as you get into the largeArray and the extraLargeArray.

//ExtraCredit

The unshift method used in the doublerInsert function has to move every item in the array over once for every single iteration of the loop. This is what causes it to take quite a bit longer than the doubleAppend function. The doubleAppend function just has to push one item to the end of the array as opposed to moving everything already in the function.