

	Insert	Append
extraLargeArray - 100k	723.5094 ms	2.6941 ms
largeArray - 10k	7.4338 ms	.4275 ms
mediumArray - 1k	128.8 μ s	98 μ s
smallArray - 100	36.2 μ s	67.7 μ s
tinyArray - 10	27.9 μ s	63.8 μ s

As the size of the array increases for both functions, the time runtime of each function grows, but it seems to grow exponentially for the insert function. Even though a small array is 10x the size of the tiny array, the increased runtime for each function is relatively minor initially, and the insert function actually performs better than the append function for both tiny and small arrays. However, once we consider a medium sized array, the insert function takes about 30% longer. It seems clear that the append method scales far better than the insert method. With each step up in array size, the relative increase in runtime for the insert function is much higher than the append function, culminating in the extra large array taking almost 300x as long to process as the append function.