

With the extraLargeArray the timing is significantly faster with the append 5.9963 ms while the insert is 1.8888274 s

	Append	Insert
extraLargeArray	5.9963 ms	1.8888274 s
largeArray	704.3 $\mu$ s	12.2809 ms
mediumArray	195.4 $\mu$ s	234.7 $\mu$ s
smallArray	132 $\mu$ s	76.5 $\mu$ s
tinyArray	130.6 $\mu$ s	47.1 $\mu$ s

The doublerInsert is much more linear of a function than the append function. As the numbers get smaller it would make more sense to use the insert function but the append function scales better. The append function is not a linear function but much closer to one than the insert which takes more time as the numbers get bigger.