

## Runtime analysis

tinyArray	Insert 44.4 $\mu$ s	Append 95.9 $\mu$ s
smallArray	Insert 61.3 $\mu$ s	Append 107.5 $\mu$ s
mediumArray	Insert 254.6 $\mu$ s	Append 178.1 $\mu$ s
largeArray	Insert 11.9 ms	Append 883.9 $\mu$ s
extraLargeArray	Insert 1.15 s	Append 3.4 ms

As the array size increases, the time increases as well. The insert function scales better than the append function. The insert function times are faster than the append function times. There is a huge difference between the largeArray times and extraLargeArray suggesting size is a factor in execution. A function would be slow because of execution of the code and how long it is. The syntax of the code can also play a role in slower functions.