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Part 1

extraLarge Array
Insert- 1.908507208s
Append- 6.109669ms

tinyArray
Insert- 109.039 us
append- 184.241us

smallArray
Insert- 1.604024ms
append- 191.855us

mediumArray
Insert- 246.116us
append - 205.967us

largeArray
Insert- 15.826961ms
append- 916.718us

The biggest difference I am seeing is why does the mediumArray go from microsecond to when the small array was being tracked in millisecond. So it looks when it was scaling from small to medium that it was getting faster to insert. The append you saw that times got a little slower each time when the array was getting larger and larger. Append does have quicker times compared to the insert value giving it a better ability to scale at a faster rate. Its still odd from the mediumArray insert had a faster time compared to the smallArray.