Timing Results

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| --- | --- | --- | --- | --- |
| extralargeArray(100000) | largeArray(10000) | mediumArray (1000) | smallArray(100) | tinyArray(10) |
| Insert 717.8512ms | Insert 7.0814ms | Insert 177.4μs | Insert 36.5μs | Insert 33.8μs |
| Append 37.217ms | Append 496.6μs | Append 144.1μs | Append75.7μs | Append  103.5μs |

(Append.push)-O (1)

(Insert.unshift)-O (n)

The pattern of results shows that the unshift method is slower than the push method in every array that was tested as seen by the above table. This is because Unshift works by adding one or more elements to the beginning of an array and must shift over the existing elements changing their index. This is slower that the push method, that simply goes the end of the array.