Result when both the function ran parallely

Results for the extraLargeArray

insert 1.093487834 s

append 3.524083 ms

Results for the LargeArray

insert 11.801667 ms

append 785.292 μs

Results for the MediumArray

insert 211.458 μs

append 142.084 μs

Results for the SmallArray

insert 39.959 μs

append 91.459 μs

Results for the TinyArray

insert 32.083 μs

append 91.584 μs

Both the function is performing same logic but the method used in the function was slight different. In double append function the multiple was saved in num and was pushed in the new array whereas in double Insert function the multiple was saved in num and unshift method was used where the number was added to the beginning of array. The difference between these two methods was that the push() method add to the end of the array whereas the unshift() method add to the beginning of array.

We are basically passing different sizes of array in both the function and consoling the runtime.

I found that the append function is faster than the insert function no matter of the size of the array because the time complexity is O(1) for push method and has constant time complexityand for unshift it is O(n) and has linear time complexity.