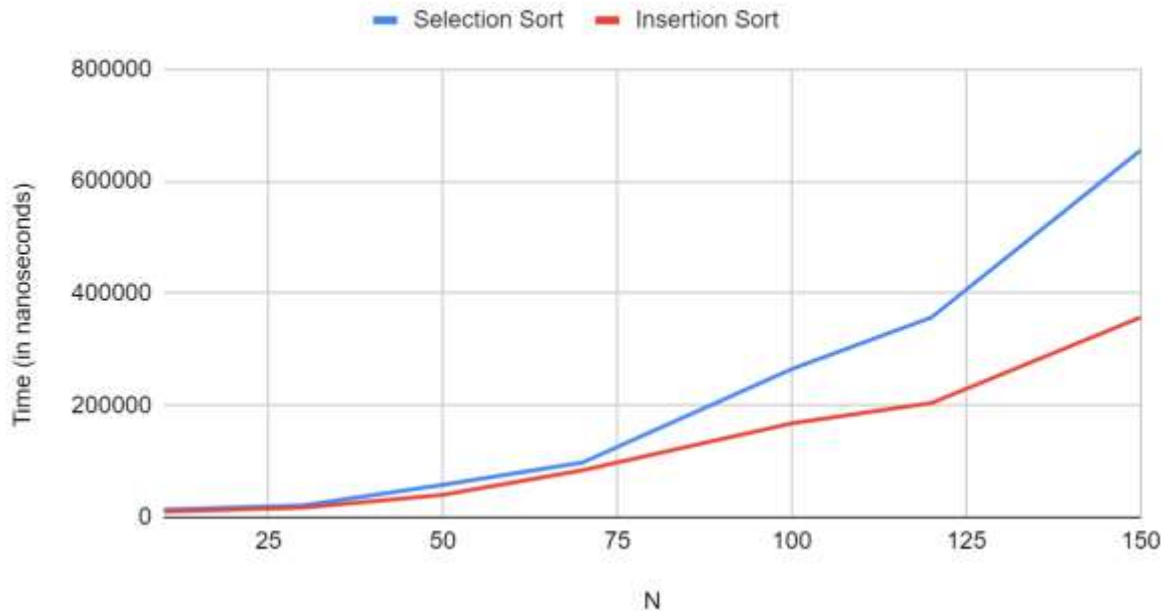


Selection Sort and Insertion Sort Analysis

Selection Sort and Insertion Sort



We can clearly see that Insertion sort tends to be faster than Selection Sort.

Selection sort has a best case, worst case and average case all equal to $n(n - 1)/2$. Insertion sort's worst case is also equal to $n(n - 1)/2$ but on average it is somewhat faster than this.

Both algorithms have a time complexity of $O(n^2)$.

Both algorithms are in-place.

Insertion sort has another slight advantage over Selection sort because it is stable and Selection sort is not.