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Homework 4B

1)

dupTestList:

avg: $O(n^2)$

worst: $O(n^2)$

dupTestSort

avg: $O(n \log n)$ //The sorting algo takes the most time and it's $n \log n$ on average and worst

worst: $O(n \log n)$

dupTestSet

avg: $O(n \log n)$, time complexity of set's insert is $\log n$

worst: $O(n \log n)$

dupTestUnorderedSet

avg: $O(n)$, time complexity of unordered_set's insert is constant on average

worst: $O(n^2)$, time complexity of unordered_set's insert is n in worse case.