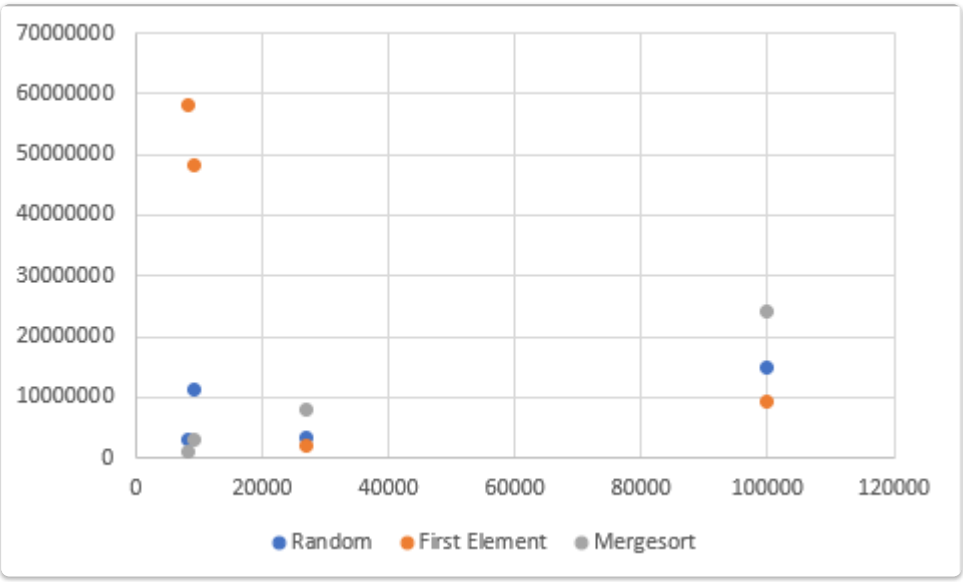
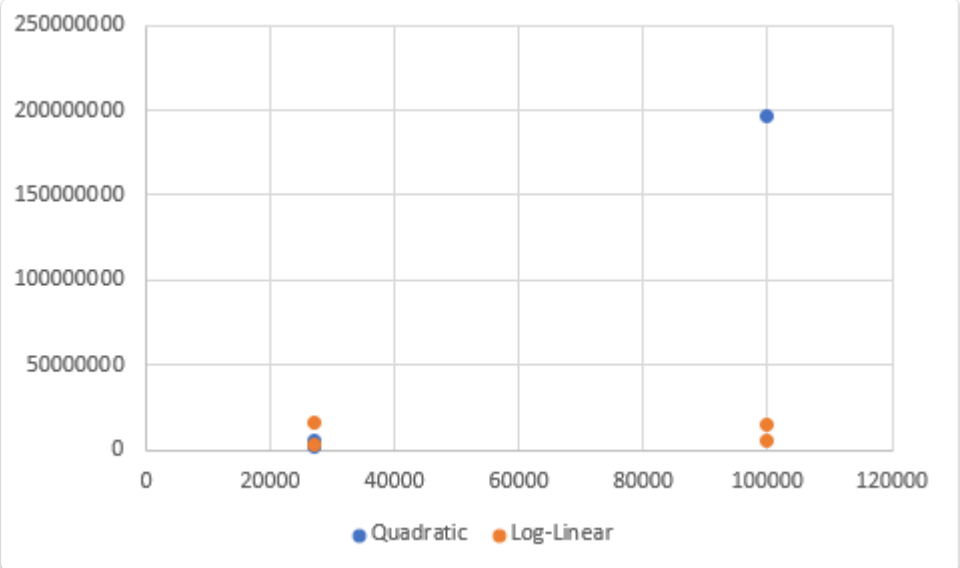
Programming 1 Report

Problem Set 1

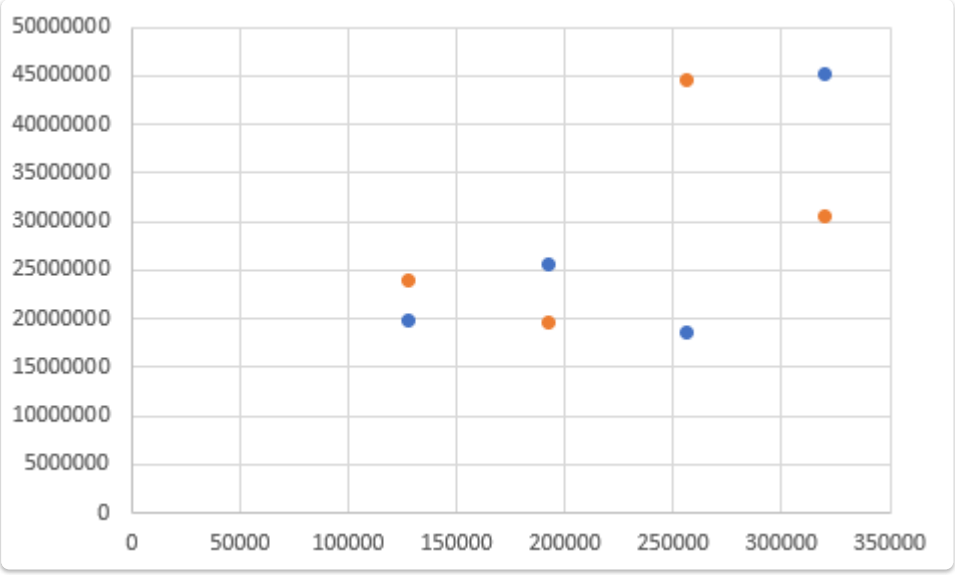


Inputs 0 and 1 are already sorted, so Random quick sort can run in nlogn time. However, first element as pivot quicksort is forced to run in worst case time, n^2.

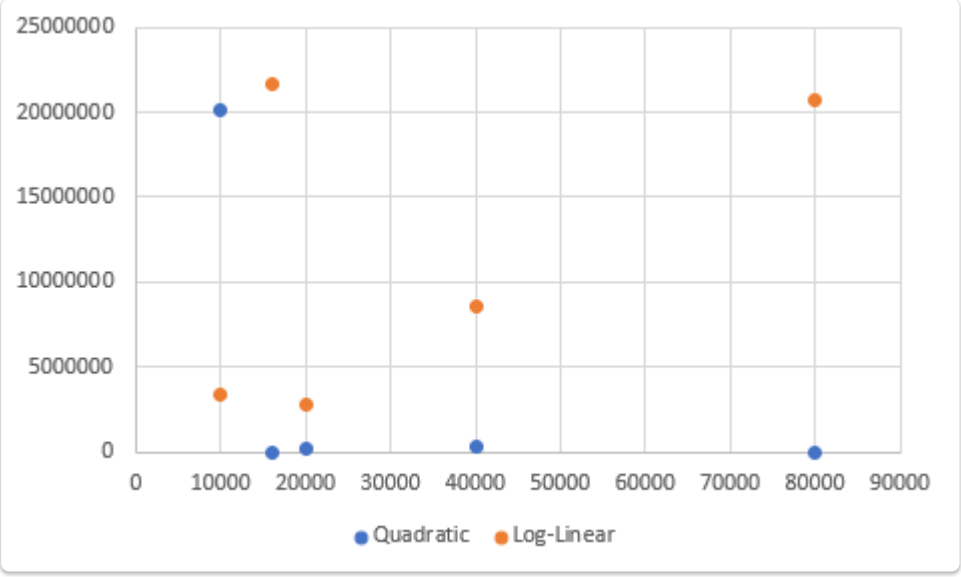
Problem Set 2



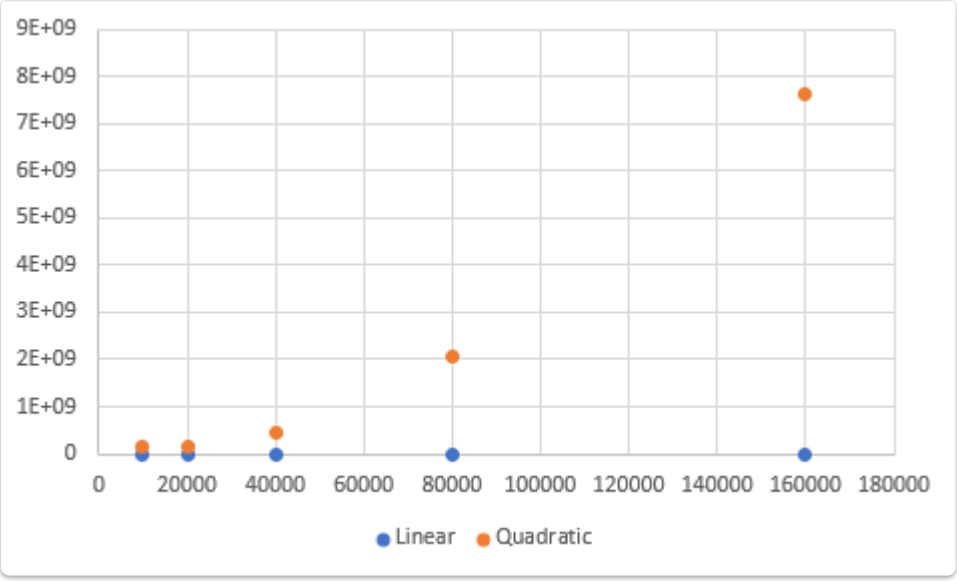
Problem Set 3



Problem Set 4



Problem Set 5


9E+09
8E+09
7E+09
6E+09
5E+09
4E+09
3E+09
2E+09
1E+09
0
0
20000
40000
60000
80000
100000
120000
140000
160000
180000
Linear
Quadratic