Corey Anderson
2304284
Lab 09

Quick Sort – Random Initialization

- The 11 data points indicate an O(n $\log_2$ n) relationship between list length and sorting time. The relation between length of list and time can be modeled by n*$\log_2$(n)/138064820.914
- Prediction for the time required for Quick Sort to sort a randomly initialized list of length 10,000,000,000: y(10000000000)=2406.06 seconds or 40.101 minutes