

Quick Sort – Descending Initialization

- The 11 data points indicate an $O(n^2)$ relationship between list length and sorting time. The relation between length of list and time can be modeled by $.000000000083*n^2 - .000003*n + .1894$
- Prediction for the time required for Merge Sort to sort descending (reverse sorted) list of length 10,000,000: $y(10000000) = 82970.1894$ seconds or 23.05 hours

