Quick Sort - Random Initialization

- The 11 data points indicate an O(n²) relationship between list length and sorting time. The relation between length of list and time can be modeled by .000000000828*n²-.0000009*n+.063
- Prediction for the time required for Merge Sort to sort a randomly initialized list of length 10,000,000: y(10000000)=82791.063 seconds or 23.00 hours

