Insertion Sort – Random Initialization

- The 11 data points indicate an O(n^2) relationship between list length and sorting time. The quadratic trendline fits the data with an R^2 value of .9999.
- Prediction for the time required for Insertion Sort to sort a randomly initialized list of length 10,000,000: y(10000000)=50006.9457 seconds or 13.89 hours