

Bubble Sort – Ascending Initialization

- The 11 data points indicate an $O(n)$ relationship between list length and sorting time. The linear trendline fits the data with an R^2 value of .9996.
- Prediction for the time required for Insertion Sort to sort an ascending (pre-sorted) list of length 10,000,000,000:
 $y(10000000000)=20.0005$ seconds

