```
(* processing selection sort times *)
data = Import["/Users/john/structures/assignment2/quick.csv", "CSV"];
wordCounts = data[[All, 1]];
comparisons = data[[All, 2]];
swaps = data[[All, 3]];
times = data[[All, 4]];


time[words_] = Fit[Transpose[{wordCounts, times}], {1, words, words^2}, words]

Show[ListPlot[Transpose[{wordCounts, times}]],
 Plot[time[words], {words, 0, 200 000}, PlotStyle → Red],
 PlotLabel → "Time vs. Word Count for Quick Sort (Strings)"]

comparisons[words_] =
 Fit[Transpose[{wordCounts, comparisons}], {1, words}, words]

Show[ListPlot[Transpose[{wordCounts, comparisons}]],
 Plot[comparisons[words], {words, 0, 200 000}, PlotStyle → Red],
 PlotLabel → "Comparisons vs. Word Count for Quick Sort (Strings)"]
```
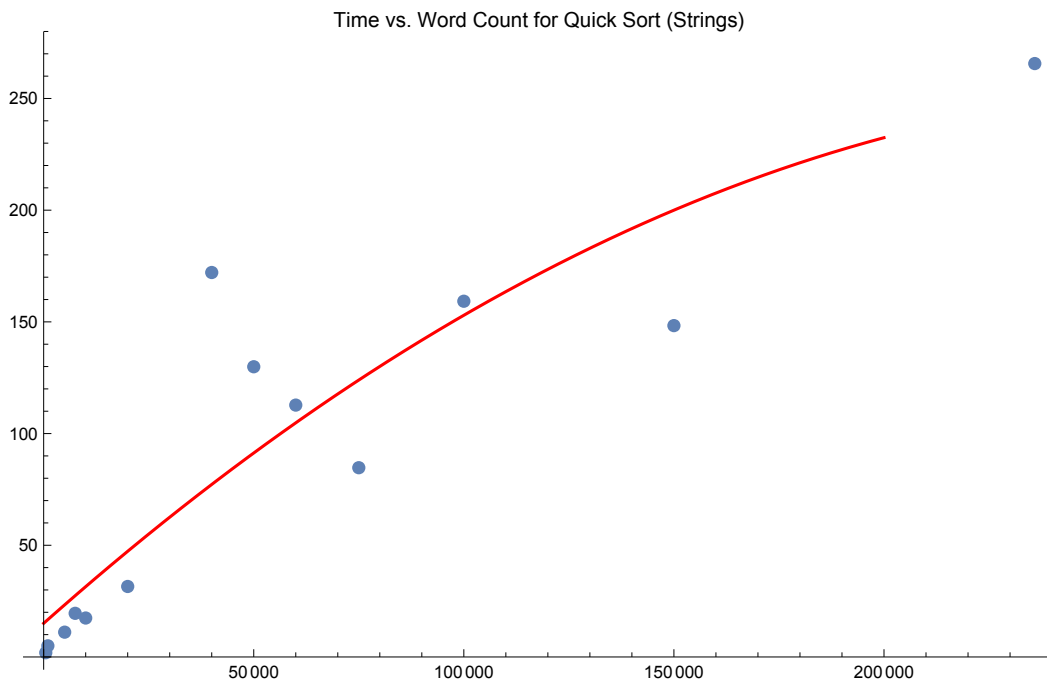
$15.0579 + 0.00167117 \, \text{words} - 2.92128 \times 10^{-9} \, \text{words}^2$

Time vs. Word Count for Quick Sort (Strings)

Set::write : Tag List in
    {11984, 180569, 2241717, 3708027, 396732, 5859588, 875184, 5105, 86458, 1078086, 1298379, 120581, 1721187}[
      words_] is Protected. ≫

$-92 283.5 + 24.8823 \, \text{words}$

Comparisons vs. Word Count for Quick Sort (Strings)