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

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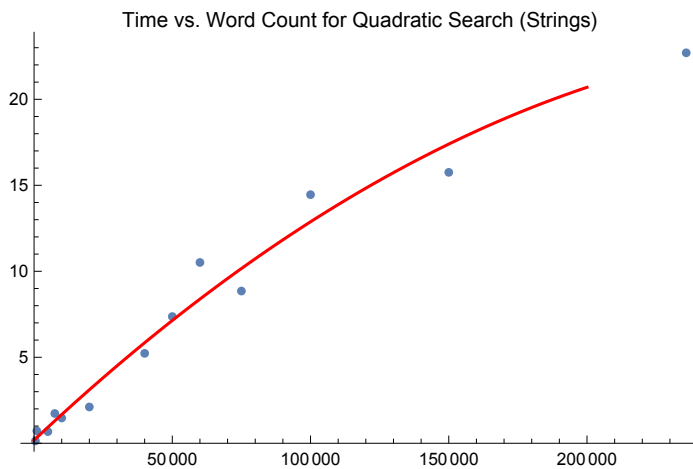
```
time[words_] = Fit[Transpose[{wordCounts, times}], {1, words, words^2}, words]

Show[ListPlot[Transpose[{wordCounts, times}]],
 Plot[time[words], {words, 0, 200 000}, PlotStyle → Red],
 PlotLabel → "Time vs. Word Count for Quadratic Search (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 Quadratic Search (Strings)"]
```
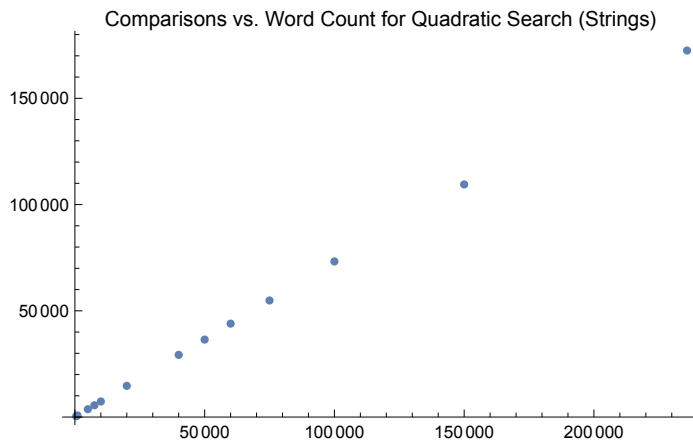
$0.180885 + 0.000151361\, \text{words} - 2.43924 \times 10^{-10}\, \text{words}^2$

Time vs. Word Count for Quadratic Search (Strings)

Set::write :

Tag List in {762, 7329, 73227, 109472, 14682, 172484, 29256, 397, 3691, 36460, 43964, 5547, 54874}[words_] is Protected. ≫

$37.3114 + 0.730786\, \text{words}$

Comparisons vs. Word Count for Quadratic Search (Strings)

"