

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

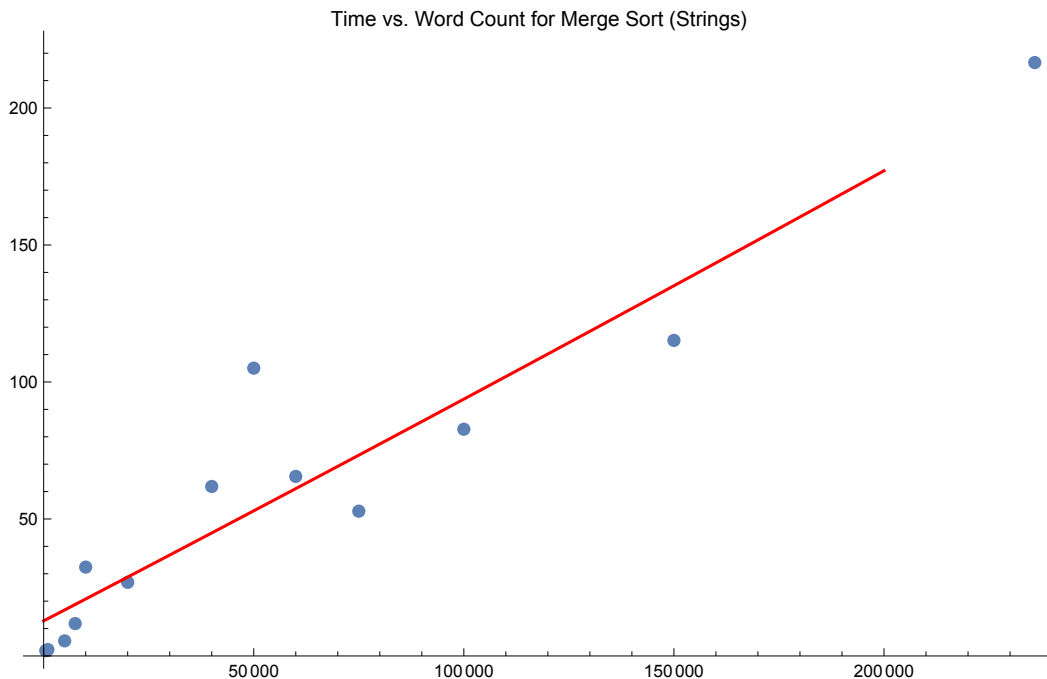
time[words_] = Fit[Transpose[{wordCounts, times}], {1, words, words^2}, words]

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

$12.8076 + 0.000797348 \text{ words} + 1.20513 \times 10^{-10} \text{ words}^2$



```
Set::write: Tag List in
  {8718, 120463, 1536458, 2392228, 260969, 3914910, 561860, 3858, 55237, 718243, 877144, 87195, 1121154}[words_]
  is Protected. >>
```

- 62 209.2 + 16.5153 words

