```
In[39]:= (* processing selection sort times *)
     data = Import["/Users/john/structures/assignment2/selection.csv", "CSV"];
     wordCounts = data[[All, 1]];
     comparisons = data[[All, 2]];
     swaps = data[[All, 3]];
     times = data[[All, 4]];
In[74]:=
     time[words_] = Fit[Transpose[{wordCounts, times}], {1, words, words^2}, words]
     Show[ListPlot[Transpose[{wordCounts, times}]],
      Plot[time[words], {words, 0, 200000}, PlotStyle → Red],
      PlotLabel → "Time vs. Word Count for Selection Sort (Strings)"]
     comparisons[words_] =
      Fit[Transpose[{wordCounts, comparisons}], {1, words}, words]
     Show[ListPlot[Transpose[{wordCounts, comparisons}]],
      Plot[comparisons[words], {words, 0, 200000}, PlotStyle → Red],
      PlotLabel → "Comparisons vs. Word Count for Selection Sort (Strings)"]
Out[74] = 8728.08 - 0.840075 \text{ words} + 0.0000199497 \text{ words}^2
                             Time vs. Word Count for Selection Sort (Strings)
     300 000
     250 000
     200 000
Out[75]=
     150 000
     100 000
```

Set::write: Tag List in {499500, 49995000, 704982704, 1634976888, 199990000, 2051180779, 799980000, 124750, 12497500, 1249975000, 1799970000, 28121250, 1482504796}[words_] is Protected. ≫

150 000

200 000

100 000

Out[76]= $2.35215 \times 10^8 + 9215.97$ words

50000

50 000

