```
In[91]:= (* processing selection sort times *)
     data = Import["/Users/john/structures/assignment2/insertion.csv", "CSV"];
     wordCounts = data[[All, 1]];
     comparisons = data[[All, 2]];
     swaps = data[[All, 3]];
     times = data[[All, 4]];
In[96]:=
     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 Insertion 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 Insertion Sort (Strings)"]
Out[96] = 4910.04 - 0.488735 \text{ words} + 0.0000110122 \text{ words}^2
                             Time vs. Word Count for Insertion Sort (Strings)
     150 000
Out[97]= 100 000
```

Set::write: Tag List in {248746, 25155950, 1796449531, 1332153645, 99935231, 1031956336, 398825791, 62650, 6244551, 623612400, 901267906, 14186214, 1406502306}[words_] is Protected. ≫

150 000

200 000

100 000

Out[98]= $1.99876 \times 10^8 + 6674.14$ words

50000

50 000

