

```

In[85]:= selection[words_] =
      8728.080373902008 - 0.8400752435385844 words + 0.000019949689271781237 words2;
quick[words_] = 15.057946764996796 + 0.001671169675241757 words -
      2.9212801881317814 * 10-9 words2;
merge[words_] = 12.807590932610985 + 0.0007973480826874573 words +
      1.2051340206162585 * 10-10 words2;
insertion[words_] = 4910.039017276736 - 0.4887349709532982 words +
      0.000011012226464628218 words2;
bubble[words_] = 14 164.567389739186 - 1.100396645066854 words +
      0.00003519432450389842 words2;

```

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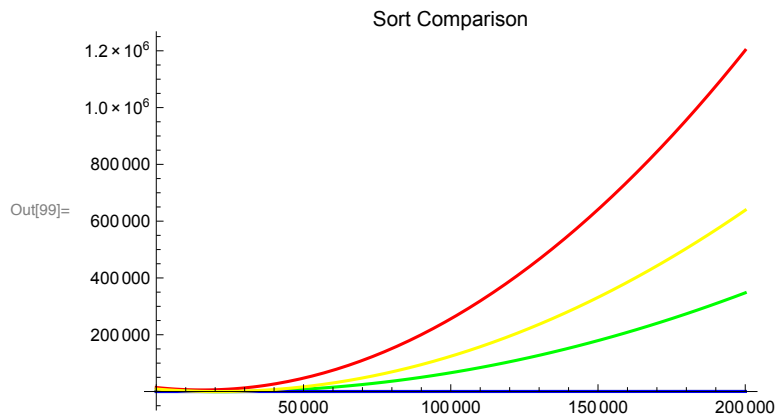
In[99]:= Show[Plot[bubble[words], {words, 0, 200 000}, PlotStyle → Red],
      Plot[insertion[words], {words, 0, 200 000}, PlotStyle → Green],
      Plot[merge[words], {words, 0, 200 000}, PlotStyle → Black],
      Plot[quick[words], {words, 0, 200 000}, PlotStyle → Blue],
      Plot[selection[words], {words, 0, 200 000}, PlotStyle → Yellow],
      PlotLabel → "Sort Comparison"]

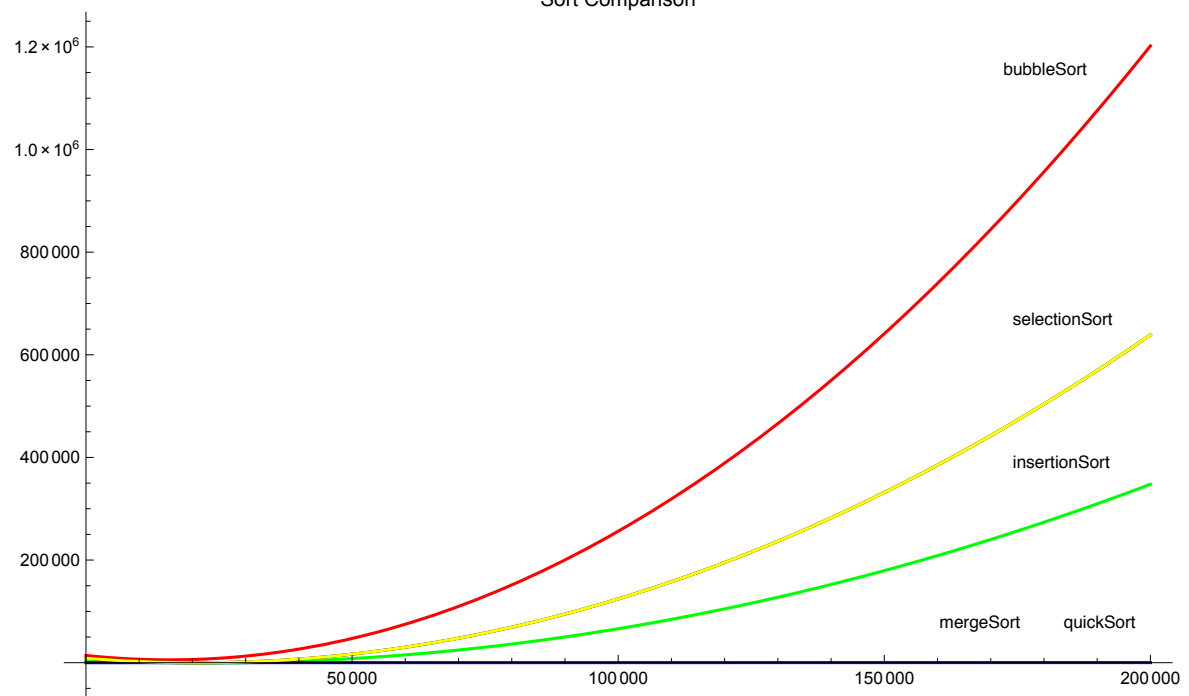
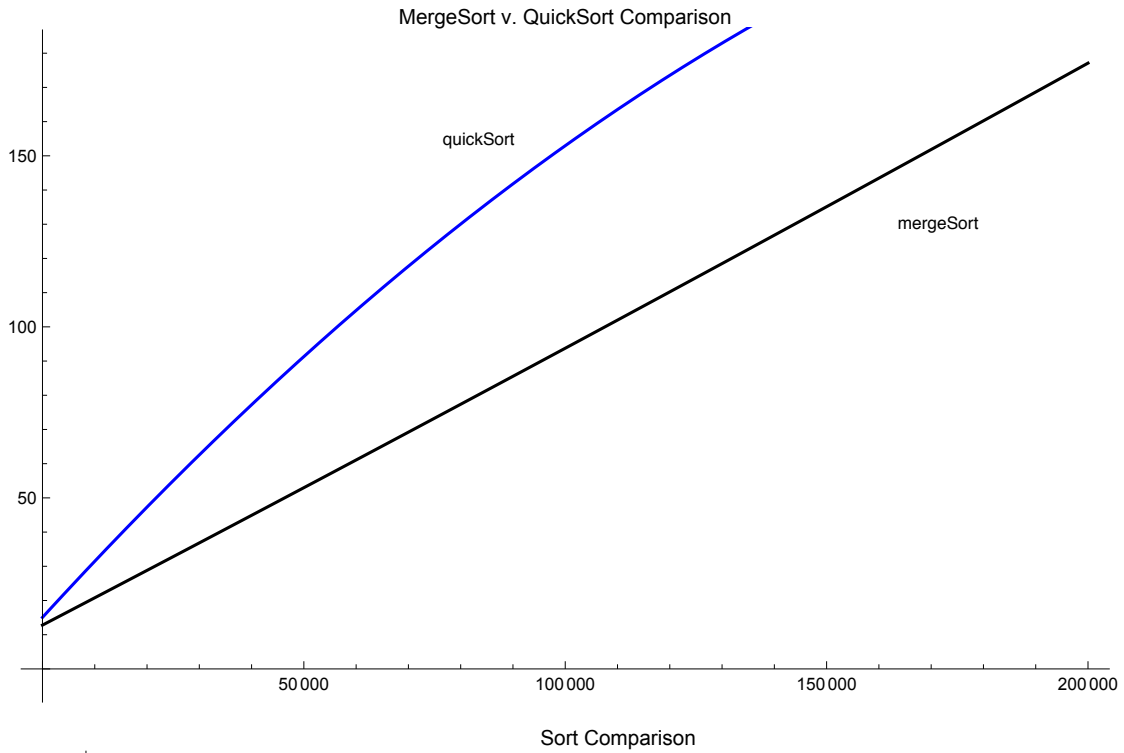
```

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Show[Plot[merge[words], {words, 0, 200 000}, PlotStyle → Black],
      Plot[quick[words], {words, 0, 200 000}, PlotStyle → Blue],
      PlotLabel → "MergeSort v. QuickSort Comparison"]

```





In[47]:=