Sorting Demo

Handout for the Java Applet

Algorithm Efficiency

The [Sorting demo (Java applet)](http://www.cs.ubc.ca/~harrison/Java/sorting-demo.html) provides a demo for various sorting algorithms. Each demo demonstrates how the sort is performed. Using the sorting demos, explore the differences in efficiency among different sorting algorithms.

## Step 1:

Explore the various sorting algorithms. Pick 5 of the sorting algorithms and complete the table below. You may use a stopwatch to time the algorithms.

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| **Sorting Algorithm** | **Speed of Algorithm**  **(ms)** |
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## Step 2:

Now that you have viewed the sorting demos and timed them, compare the times and determine whether each sorting algorithm is “bubble sort” or “bucket sort”. **Put a check (✔) in the appropriate column.**

***HINT: A bubble sort algorithm is considered a “slow algorithm” and a bucket sort algorithm is considered a “fast algorithm”***

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| **Sorting Algorithm** | **Bubble Sort** | **Bucket Sort** |
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