

Sequential Sorting

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February 5, 2008

A Lower Bound on Speed

- The fastest any comparison based sort can sort a list is $O(N \log N)$
- The longest any comparison based sort should take is $O(N^2)$

Sorting Algorithms

- Selection Sort
- Insertion Sort
- Bubble Sort
- Shell Sort
- Bucket Sort
- Radix Sort
- Quick Sort
- Merge Sort – not covered
- Heap Sort – not covered