Data Structures and Algorithms I

06 - Tutorial: Recursion

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Sorting

- Implement a java version of bubble sort

- Implement a java version of selection sort

- Implement a java version of merge sort

Sorting

- What is the expected complexity of each of these algorithms?

Sorting

- Perform a timing experiment and verify the run time complexity against the theoretical analysis.

Sorting

- Perform a timing comparison for the following 3 cases:

1. randomly initialised

2. sorted in increasing order

3. sorted in decreasing order