**Lab Solution Question Sets Answers**

**Lab 1**

Q1 Insertion sort runs in linear time for equal values

Q2 Insertion best case is linear time

Q3 No, both have worst case quadratic time

**Lab 2**

Q1 n log n

Q2 Shellsort can be faster for strongly unsorted data

**Lab 3**

Q1 The answer will depend on details of the problem, but as a general guide we use time

and space complexity as a guide

Q2 In most situations, quicksort is the best choice

Q3 Radix sorting methods have excellent performance on string data

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