

19 Linear search – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

19.1 The position of the target, or "not found".

19.2 It checks each element in turn from start to end.

19.3 No.

19.4 All 10.

19.5 On unsorted data or short lists.

19.6 It checks 8 (no), 3 (no), then 5 (yes) and stops —so it checks 8, 3, 5.

19.7 The worst case is about n comparisons, so doubling the list size roughly doubles the work. Linear search grows in proportion to n .