11.6 Searching and Sorting

- Searching data involves determining whether a value (referred to as the search key) is present in the data and, if so, finding its location
  - Two popular search algorithms are the simple linear search and the faster but more complex binary search
- Sorting places data in ascending or descending order, based on one or more sort keys
- We selection sort and insertion sort, along with the more efficient but more complex merge sort

Chapter	Algorithm	Location
Searching Algorithms, Functions and Methods		
5	List method index	Section 5.9
8	String methods count, index and rindex.	Section 8.7
8	re module functions search, match, findall and finditer	Section 8.12
15	Linear search	Section 11.7
15	Binary search	Section 11.9
15	Recursive binary search	Exercise 11.18
Sorting Algorithms, Functions and Methods		
5	List method sort	Section 5.8
5	Built-in function sorted	Section 5.8
5	Built-in function sorted with a key	Exercise 5.15
7	DataFrame methods sort_index and sort_values	Section 7.14
11	Selection sort	Section 11.11
11	Insertion sort	Section 11.12
11	Recursive merge sort	Section 11.13
11	Bucket sort	Exercise 11.17
11	Recursive quicksort	Exercise 11.19