9.3 (Querying an Array of Invoice Objects) Use the class Invoice provided in the ex09_03 folder with this chapter's examples to create an array of Invoice objects. Use the sample data shown in Fig. 9.8. Class Invoice includes four properties—a PartNumber (type int), a PartDescription (type

string), a Quantity of the item being purchased (type int) and a Price (type decimal). Perform the following queries on the array of Invoice objects and display the results:

- a) Use LINQ to sort the Invoice objects by PartDescription.
- b) Use LINQ to sort the Invoice objects by Price.c) Use LINQ to select the PartDescription and Quantity and sort the results by
- Quantity.

 d) Use LINQ to select from each Invoice the PartDescription and the value of the In-
- range variable total.]

 e) Using the results of the LINQ query in part (d), select the InvoiceTotals in the range \$200 to \$500.

voice (i.e., Quantity * Price). Name the calculated column InvoiceTotal. Order the results by Invoice value. [Hint: Use let to store the result of Quantity * Price in a new

Part number	Part description	Quantity	Price
83	Electric sander	7	57.98
24	Power saw	18	99.99
7	Sledge hammer	11	21.50
77	Hammer	76	11.99
39	Lawn mower	3	79.50
68	Screwdriver	106	6.99
56	Jig saw	21	11.00
3	Wrench	34	7.50

Fig. 9.8 | Sample data for Exercise 9.3.

- (Sorting Pets Names by Length) Write a console app that inputs pets' names into a List<string>. Perform the following queries on the List and display your results: a) Use LINQ to sort the List in ascending order on the basis of number of characters in
 - the name.
 - b) Use LINQ to sort the List in descending order on the same basis. c) Display the List count after removing duplicate names from the list.