

Lesson 9 Exercises

Class Inventory includes four properties:

- a PartNumber (type int),
- a PartDescription (type String),
- a Quantity of the item being purchased (type int) and
- a Price (type double).

Create an array of Inventory objects.

Use the sample data shown.

Part number	Part description	Quantity	Price
83	Electric sander	7	57.98
24	Power saw	18	99.99
7	Sledge hammer	11	21.5
77	Hammer	76	11.99
39	Lawn mower	3	79.5
68	Screwdriver	106	6.99
56	Jig saw	21	11
3	Wrench	34	7.5

Perform the following queries on the array of Inventory objects and display the results:

a) Use lambdas and streams to sort the Inventory objects by Part Description, then display the results.

b) Use lambdas and streams to sort the Inventory objects by Price, then display the results.

c) Use lambdas and streams to map each Inventory to its Part Number (Key) and Quantity (Value), sort the results by Quantity, then display the results.

d) Use lambdas and streams to map each Inventory to its Part Number and the total value of the Parts (i.e., Quantity * Price). Order the results by Part value.

e) Modify Part (d) to select the Inventory values that is more than \$500.