

## PA5 Prompt

### Manipulating a Stream<Invoice>

Use the Class Invoice, provided in the template NetBeans project Functional Programming Template in Canvas, to perform the following queries on the List of invoice objects and display the results. The List of invoice objects is created in the main method of Functional Programming Template project provided. The Invoice class is also provided in the project template.

- a) use streams to sort the invoice objects by partDescription, then display the results.
- b) use streams to sort the invoice objects by pricePerItem, then display the results.
- c) use streams to map each invoice object to its partDescription and quantity, sort the results by quantity, then display the results.

The following is how your results should appear:

Part number	Part description	Quantity	Price per item	Value
83	Electric sander	7	57.98	405.86
24	Power saw	18	99.99	1799.82
7	Sledge hammer	11	21.50	236.50
77	Hammer	76	11.99	911.24
39	Lawn mower	3	79.50	238.50
68	Screw driver	106	6.99	740.94
56	Jig saw	21	11.00	231.00
3	Wrench	34	7.50	255.00

Invoices sorted by Part description

Part number	Part description	Quantity	Price per item	Value
83	Electric sander	7	57.98	405.86
77	Hammer	76	11.99	911.24
56	Jig saw	21	11.00	231.00
39	Lawn mower	3	79.50	238.50
24	Power saw	18	99.99	1799.82
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Invoices sorted by Price

Part number	Part description	Quantity	Price per item	Value
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83	Electric sander	7	57.98	405.86
39	Lawn mower	3	79.50	238.50
24	Power saw	18	99.99	1799.82

Part Description and Quantity for each Invoice

Part description	Quantity
Lawn mower	3
Electric sander	7
Sledge hammer	11
Power saw	18
Jig saw	21
Wrench	34
Hammer	76
Screw driver	106