

CS 37 C++ Programming

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Programming Assignment #3

Date Due:
04/23/20

Deliverables:

- A copy of the program uploaded to Canvas under the Assignment 3 section.

Requirements:

- Use the template provided on Canvas (Assignment_3_Template.txt).

Grading:

- 25 points possible
 - 3 pts - Comments
 - 4 pts - Consistency/Readability (Spacing / Indentation / Style)
 - 10 pts - Program works and generates results in the expected format (Effectiveness)
 - 8 pts - Use appropriate tools/structures, include required elements (Efficiency)
- While you may collaborate, you are expected to turn in your own work

Description:

Business is booming for Luigi and Gina LaMota and their automotive parts business. They would like you to help them keep track of the items that sell the best. To do this, you will need to write a program that will read data from a file and **determine the item that produces the most revenue** for a certain category. These best selling items and all the information pertaining to them will be **written out to a file** and delivered to Luigi and Gina.

Output format for the file (only headings shown, yours will have data after the headings):

**** Brakes ****

Description:
Price:
Manufacturer:
QtySold:
Car:
 Brand:
 Model:
 Year:
Material:

**** Lights ****

Description:
Price:
Manufacturer:
QtySold:
Car:

Brand:
Model:
Year:

Watts:

**** Oil ****

Description:
Price:
Manufacturer:
QtySold:
Weight:
Type:
Quarts:

**** Tires ****

Description:
Price:
Manufacturer:
QtySold:
Size:
Warranty:

You will use the Parts List.txt file provided on Canvas as the data for this assignment.

Challenge option:

Write a second file with ALL the parts for each category sorted by descending total revenue (within the part category) in the following format where description and revenue will be replaced with actual data and multiple lines for each category. The category heading appears only once.

Brakes

Description	Revenue
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Lights

Description	Revenue
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Oil

Description	Revenue
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Tires

Description	Revenue
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