

# CS113 - Program Design and Algorithms

## Lab Assignment #1

### Summer 2002

The purpose of this exercise is to reinforce what you know about the use of files in C++.

*Joe's Auto Parts* store would like to computerize their inventory. They have created a file containing information about the parts they carry in their store; each line in the file contains information about that part:

Part No.	Part Description	No. in Stock	Value Each	Reorder Level	Reorder Qty
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You are to write a C++ program which inputs an inventory item from this file, calculates the total value of the current stock of the item, and prints out the information similar to the format below. If the current number in stock is less than the reorder level, then a message that more of this item needs to be ordered should be produced. The "Reorder Qty" field specifies how many should be (re)ordered. The output should include appropriate headings, and the total inventory value should be printed after the rest of the list.

**Sample output:**

Joe's Auto Store - Inventory Report

Part No.	Description	No. in Stock	Value Each	Total Value	
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2027	Wing Nut	10	1.27	12.70	***REORDER 8
2030	Rocker Panel	5	137.85	689.25	
2035	Wheel Rim	2	14.64	29.28	
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.	.	.	.	.	
2974	Headlight - LoB	.	.	.	
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Total Inventory Value				\$ xxxx.xx	