Module: setDeleteQuantity

Access Programs: none

Implementation:

Uses: input.txt

Variables

Input:
code: STRING; decrement: INT;
Represents the code of the Item which will have its quantity value decreased by decrement.

Output:
code "\t" description "\t" cost "\t" quantity "\n"
Outputs to input.txt the updated information of the Item.

State:
tempCode:string
Stores the current code of the line which the program is reading from input.txt
Description:string
Stores the current description of the line which the program is reading from input.txt

cost: LONG
Stores the current cost of the line which the program is reading from input.txt

quantity: INT
Stores the current quantity of the line which the program is reading from input.txt

Constants: none

Pseudo Code:

IF (input.txt not found) DO
         PRINT ("Can't open input file")
IF(output.txt not found) DO
         PRINT ("Can't open output file")
WHILE (NOT input.txt end of file) DO
         tempCode = GET FROM input.txt (code)
         IF (NOT(tempCode=="\n")) DO
                   Description = GET FROM input.txt (description)
                   cost= GET FROM input.txt (cost)
                   quantity= GET FROM input.txt (quantity)
                             IF(Description NOT = " ")DO
                                       PRINT TO output.txt (tempcode "\t" Description"\t" cost "\t"
                                       IF(tempCode==Code) DO
                                                 quantity' = 'quantity - decrement

PRINT TO output.txt (quantity "\n")

CLOSE input.txt
CLOSE output.txt
DELETE input.txt
RENAME output.txt to input.txt

Test Report:

TEST CASE (item: code, descritption,cost, quantity)input.txt	code:String decrement:INT	Tempcode:String, Description:String, Cost:LONG,quantity': INT	Input.txt'	Result
code1, des1,123,1 code2,des2, 45, 2 code3,des3, 6,3	code3,2	Code3,des3,6,1	code1, des1,123,1 code2,des2, 45, 2 code3,des3, 6,1	PASS
code1, des1,123,1 code2,des2, 45, 2 \n code3,des3, 6,3	code2, 10	Code2,des2,45,-8	code1, des1,123,1 code2,des2, 45, 12 \n code3,des3, 6,-8	PASS
EMPTY	Code2,10	EMPTY	EMPTY	PASS
code1, des1,123,1 code2,des2, 45, 2 \n code3,des3, 6,3	Code7,des7,10,1	EMPTY/NULL	code1, des1,123,1 code2,des2, 45, 2 code3,des3, 6,3	PASS