

Module: setAddQuantity

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, description, 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