AP Computer Science
Mr Hanley

[The Hood](#)

Coffee Trader Homework

Ver: 2.01

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Coffee Seller Homework

Write a program to calculate the optimal number of boxes to ship a desired number of bags of coffee!

The MadMan Hanley Coffee Company ships coffee via online order.

They would like to optimize the number of boxes in order to provide the cheapest cost (FIRST) and the minimal number of boxes (SECOND) for their customers.

A bag of coffee costs $5.25.

A large box fits **20 bags**, a medium fits **10 bags** and a small fits **5 bags.**

When an order comes in, The shipper uses your program to optimize the number of boxes used to ship the coffee.

Large boxes costs **$2**, medium **$1** and small **$.50**

For example, even though 16 bags COULD be shipped with 1 large or 2 medium, 1 large is preferable for minimizing boxes.

Allow the user to enter how many bags of coffee to buy and then tell them the **number of each box** and **total cost(including shipping)**.

You can use console or Swing

Coffee Trader Test Data
1. 39 bags
   1 L, 1 M, 2 Sm or 2 L: Remember to minimize boxes when prices equal

2. 35 bags
   1 L, 1 M, 1 Sm or 2 L: Choose the cheaper cost

3. 9 bags

    1 L or 1 M or 2 Sm : Fewer boxes, take the Medium

4. 19 bags

    1 L or 2M or 1 M and 2 Sm: Fewer boxes

Project Name	CoffeeSellerHW
Class 1 Name	CoffeeSellerMain
Class 2 Name	Or CoffeeApp
Class 3 Name	And CoffeeFrame

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5 cases	25

Artificial_Intelligence

Dynamic_Memory

Waterfall_Model

Nested_Loops Stacks

Short_Circuit_Evaluation

Extreme_Programming

Client_Server

Hong_Kong_Fooey

Insertion_Sort

VideoInheritance

Binary_Search

Files

Linear_nlogn

String_Games

Recursion_Search

File_Processing

Arrays

Selection_Sort

Big_O_Notation

2D_Arrays

Hangman

ArrayList